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*Columbia University*  
*2*

CATALOGUE  
OF THE  
OFFICERS AND STUDENTS  
OF  
THE COLUMBIAN UNIVERSITY,  
WASHINGTON, D. C.,

FOR THE ACADEMIC YEAR, 1892-'93.

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FROM THE UNIVERSITY PRESS.

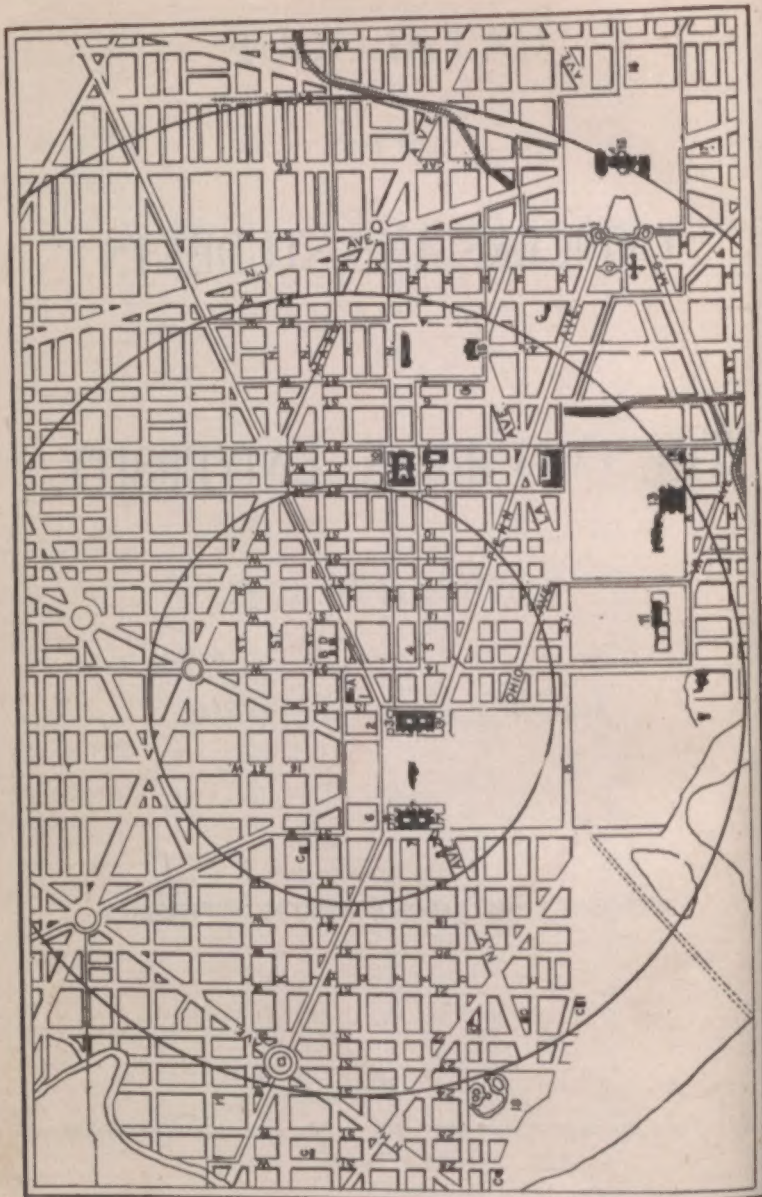
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JUDD & DETWEILER,  
PRINTERS TO THE UNIVERSITY AND TO THE SCIENTIFIC SOCIETIES  
OF WASHINGTON.

1893.

532921







## KEY TO THE MAP.

The circles on the map are drawn with radii of 2,000, 4,000, and 6,000 feet respectively from the main building of the University as a centre.

A—The main building of the University, southeast corner 15th and H streets N. W.

B—The Preparatory School.

C C C C—Parcels of ground belonging to the University.

D—The Medical and Dental School building.

Libraries numbered in the order of their proximity to the University.

### *Within less than a five or six minutes' walk:*

1.	Library of Department of Labor,	8,000 volumes.
2.	" " Department of Justice,	23,000 "
3.	" " Treasury Department,	22,000 "
3.	" " Light-House Board,	4,000 "
4.	" " Bureau of Statistics,	5,000 "
5.	" " Geological Survey,	32,000 "
5.	" " Bureau of Ethnology,	5,000 "
6.	" " Corcoran Gallery of Art,	2,500 "
7.	" " War Department,	30,000 "
7.	" " Navy Department,	26,000 "
7.	" " Department of State,	55,000 "
7.	" " War Records Office,	2,000 "
7.	" " Hydrographic Office,	3,000 "
7.	" " Nautical Almanac Office,	2,000 "
8.	" " Museum of Hygiene	10,500 "

### *Within a five or ten minutes' ride by the street railway:*

9.	Library of United States Patent Office,	50,000 volumes.
10.	" " Bureau of Education,	30,000 volumes.
11.	" " Department of Agriculture,	25,000 volumes.
12.	" " Army Medical Museum,	105,000 volumes.
13.	" " United States National Museum,	16,000 volumes.
14.	" " United States Weather Bureau,	15,000 volumes.

### *Within a fifteen minutes' ride by the street railway:*

15.	The Library of Congress,	700,000 volumes.
15.	The Library of the United States Supreme Court,	60,000 volumes.
15.	The Library of the Smithsonian Institution,	250,000 volumes.
16.	Site of the new Congressional Library.	
17.	Library of the United States Coast and Geodetic Survey,	15,000 volumes.
18.	Site of the old United States Naval Observatory.	

### *Within a thirty minutes' ride by the street railway:*

Library of the new United States Naval Observatory (not indicated on map), 13,000 volumes.



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## UNIVERSITY CALENDAR.

### Current Academic Year, 1892-'93.

1892.

Sept.	23.	} Examination of Candidates for admission to College.	Friday.
	24.		Saturday.
Sept.	26.	—First College Term begins.	Monday.
Sept.	26.	—First Term of Preparatory School begins.	Monday.
Oct.	1.	—Session of Medical School begins.	Saturday.
Oct.	4.	—Session of Corcoran Scientific School begins.	Tuesday.
Oct.	5.	—Session of Law School begins.	Wednesday.
Nov.	24-26.	—Thanksgiving recess.	
Dec.	25-Jan. 1, 1893.	—Christmas recess.	

1893.

Jan.	23.	—First College Term Examinations begin.	Monday.
Feb.	6.	—Second College Term begins.	Monday.
March	31.	} Easter recess.	
April	3.		
April	12.	{ Examination of Candidates for Degrees in the Columbian College and the Corcoran Scientific School begins.	} Wednesday.
May	4.		
May	4.	{ Commencement of Medical and Dental Schools.	} Thursday.
May	22.	{ Second Term Examinations of College and Corcoran School begin.	} Monday.
May	22.	—Law School Examinations for Degrees begin.	Monday.
June	11.	—Baccalaureate Sermon.	Sunday.
June	12.	—Anniversary Meeting of Alumni.	Monday.
June	12.	—Exhibition Day.	Monday.
June	13.	—Commencement of Law School.	Tuesday.
June	14.	{ Commencement of College and Corcoran School.	} Wednesday.
June	16.	—Closing Exercises of Preparatory School.	Friday.
June	19.	—Annual Meeting of the Corporation.	Monday.



## Next Academic Year, 1893-'94.

1893.

Sept.	15.	} Examination of Candidates for admission to College.	} Friday. Saturday.
	16.		
Sept.	18.	—First College Term begins.	Monday.
Sept.	18.	—First Term of Preparatory School begins.	Monday.
Oct.	2.	—Session of Medical School begins.	Monday.
Oct.	3.	—Session of Corcoran School begins.	Tuesday.
Oct.	4.	—Session of Law School begins.	Wednesday.
Oct.	5.	—Session of Graduate School begins.	Thursday.
Nov.	30.	} Thanksgiving recess.	
Dec.	2.		
Dec. 25—Jan. 1, 1894.—Christmas recess.			

1894.

Jan.	18.	—First College Term Examinations begin.	Thursday.
Jan.	25.	—First Corcoran Term Examinations begin.	Thursday.
Feb.	1.	{ Second Term of College and Corcoran School begins.	} Thursday.
Mar.	23-26.	—Easter recess.	
April	11.	{ Examination of Candidates for Degrees in the Columbian College and the Corcoran Scien- tific School begins.	} Wednesday.
May	3.	{ Commencement of Medical and Dental Schools.	
May	15.	{ Report of Examinations for Degrees in the Graduate School closed.	} Tuesday.
May	21.	{ Second Term Examinations of College and Corcoran School begin.	
May	21.	—Law School Examinations for Degrees begin.	Monday.
June	10.	—Baccalaureate Sermon.	Sunday.
June	11.	—Anniversary Meeting of Alumni.	Monday.
June	11.	—Exhibition Day.	Monday.
June	11.	—Commencement of the Graduate School.	Monday.
June	12.	—Commencement of Law School.	Tuesday.
June	13.	{ Commencement of College and Corcoran School.	} Wednesday.
June	15.	—Closing Exercises of Preparatory School.	
June	18.	—Annual Meeting of the Corporation.	Monday.



**EDUCATIONAL FACILITIES OF WASHINGTON.**

Washington is rich beyond any other American city, not only in the special libraries enumerated in the page facing the map, but also in large collections, illustrative of the various arts and sciences, which have been accumulated at the National Capital by the action of Congress through a long series of years. Under many of these heads Washington is not surpassed by any European capital. In view of the fact that in collecting these archives and materials it was the original purpose of the Government "to promote research and the diffusion of knowledge," the Congress of the United States has made these treasures accessible to students under the terms of the following Joint Resolution, approved April 12, 1892:

*"Resolved by the Senate and House of Representatives of the United States of America in Congress assembled, That the facilities for research and illustration in the following and any other governmental collections now existing or hereafter to be established in the city of Washington for the promotion of knowledge shall be accessible, under such rules and restrictions as the officers in charge of each collection may prescribe, subject to such authority as is now or may hereafter be permitted by law, to the scientific investigators and to students of any institution of higher education now incorporated or hereafter to be incorporated under the laws of Congress or of the District of Columbia, to wit:*

- One. Of the Library of Congress.
- Two. Of the National Museum.
- Three. Of the Patent Office.
- Four. Of the Bureau of Education.
- Five. Of the Bureau of Ethnology.
- Six. Of the Army Medical Museum.
- Seven. Of the Department of Agriculture.
- Eight. Of the Fish Commission.
- Nine. Of the Botanic Gardens.
- Ten. Of the Coast and Geodetic Survey.
- Eleven. Of the Geological Survey.
- Twelve. Of the Naval Observatory."

The Columbian University is further authorized to state that certain libraries of eminent men of science connected with the scientific service of the Government, and some of which are exceptionally valuable, will be open to such students of the Graduate School as shall be qualified to use them for purposes of original research.

**Educational Relations of the University.**

The Columbian University has no organic connection with any literary or scientific department of the Government, but its relations with them all are close and intimate. The President of the United States, the Chief Justice of the United States, and the Attorney General are honorary



members of its Board of Trustees. Two Associate Justices of the Supreme Court of the United States, two Associate Justices of the Supreme Court of the District of Columbia, and an Assistant Attorney General of the United States are active members of its Law Faculty. The President of the University is a Regent of the Smithsonian Institution and the Chairman of its Executive Committee. The President of the University is a Director of the National Deaf-Mute College, and the President of that College is a Trustee of the University. The directors of the United States Geological Survey, the Bureau of Ethnology, and the United States National Museum are Trustees of the University. The Smithsonian Institution, the National Museum, the United States Naval Observatory, the Nautical Almanac Office, the Signal Corps of the United States Army, the Army Medical Museum, the Coast and Geodetic Survey, the United States Department of Education, the United States Weather Bureau, the Bureau of Chemistry, and the Bureau of Animal Industry of the Department of Agriculture, and the Bureau of the Mint, are all represented in the Faculty of the University, and some of these departments have several representatives in its teaching body. The pathology of mental diseases is taught in the Medical School by one of the physicians in charge at the Government Hospital for the Insane, and the President of the University is a member of its Board of Visitors. The National Academy of Sciences is represented both in the Board of Trustees and in the Faculty of the University. The President of the Philosophical Society, the President of the National Geographic Society, and the President of the Anthropological Society of Washington are members of its Board of Trustees. The President of the Society of Philosophical Inquiry is Professor of Philosophy in the University. The President of the Columbian Engineering Society is the Professor of Civil Engineering in the Corcoran Scientific School and in the Graduate School of the University.

#### Other Scientific Facilities in Washington.

Washington is as much the scientific centre as it is the legislative, executive, and judicial centre of the United States. The great scientific operations of the Government have their bureaus of direction and administration at the National Capital, and with each of these bureaus a large corps of scientific workers is necessarily connected. For purposes of scientific stimulus and inquiry these workers are here gathered into societies, which hold public meetings for the reading and discussion of papers. The membership of the several societies comprises an aggregate of more than 1,300 persons. The Anthropological Society (Dr. Otis T. Mason, President), numbering, according to the last Scientific Directory, 220 active, 82 corresponding, and 16 honorary members, meets fortnightly



or oftener, on Tuesday evenings. The Biological Society (Professor C. V. Riley, President), with 154 active and 11 corresponding members, meets on alternate Saturdays, from October to May. The Chemical Society (Dr. F. P. Dewey, President), with 73 resident and 24 non-resident members, holds meetings on the alternate Thursdays of each month. The Entomological Society (Professor C. V. Riley, President), with 30 resident and 79 corresponding members, meets on the first Thursday of each month. The National Geographic Society (the Hon. Gardiner G. Hubbard, LL. D., President), with 780 members, meets every Friday. The Philosophical Society (Dr. G. Brown Goode, President), with 186 active and 64 non-resident members, holds its sessions on alternate Saturdays. The Mathematical Section of this Society (Professor J. Howard Gore, Chairman), meets on Wednesday, at irregular intervals, in the mathematical lecture-room of the Columbian University. The Society of Philosophical Inquiry (Professor J. Macbride Sterrett, President), meets every Tuesday afternoon during term time in the philosophical lecture-room of the Columbian University. The Columbian Engineering Society (Professor Francis R. Fava, Jr., C. E., President), meets on the first and the third Tuesday of each month in the Engineering Hall of the University. The Geological Society (Dr. Edward O. Wolcott, President), comprising 110 members, meets on the second and the fourth Wednesday of each month. The annual meetings of the Anthropological, Biological, Geographic, and Philosophical Societies, and occasionally their special meetings of public interest, are held in the main lecture hall of the Columbian University.

The National Academy of Sciences (Professor O. C. Marsh, President) meets annually in Washington in April.

During the Christmas holidays the Lecture Halls of the University are occupied from year to year by the American Historical Association, the American Church History Association, the Modern Language Association of America, the American Folk-Lore Society, and the American Dialect Society, for the purposes of their annual meetings. As many as eighteen national or international societies held their annual meetings in the University building during the year 1891-92. These meetings are open to the students of the University.



## THE UNIVERSITY CORPORATION.

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*President of the Corporation.*

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SECRETARY AND TREASURER OF THE CORPORATION.\*

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ROBERT H. MARTIN, *Financial Agent.*

\* The office of Secretary and Treasurer is vacant and is temporarily filled by the appointment of the President of the University as Acting Secretary and Treasurer.

**Standing Committees of the Corporation.***Executive Committee.*

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*Committee on the Columbian College.*

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*Committee on the Medical and Dental Schools.*

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*Committee on the Corporate Scientific School.*

MESSRS. GALLAUDET, GOODE, and MASON.

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MESSRS.

*Auditing Committee.*

MESSRS. GIVEN, WILSON, and MASON.

*Committee on Increase of University Endowment.*

MESSRS. LEVERING, GREENE, NOYES, ELLIS, and GOODE.



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OF THE  
COLUMBIAN UNIVERSITY.

OFFICERS, 1892-'93.

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*Vice-Presidents :*

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WM. B. KING.

JOHN B. LARNER.

THEO. W. NOYES.

DAISY M. OREMAN, M. D.

D. K. SHUTE, M. D.

B. H. WARNER.

The Alumni have recently commenced work on an organized plan for the increase of the University Library, and a number of contributions to the Library Fund and of additions to the Library have been received.

An illustrated Historical Catalogue of the University has recently been published by the Alumni Association, and unbound copies may be purchased from the Secretary for fifty cents each, and bound copies for one dollar each.

DIRECTORY  
 OF THE  
 COLUMBIAN UNIVERSITY.

ACADEMIC YEAR 1892 '93.

**JAMES C. WELLING**, *President of the University.*

A. B., Princeton College, 1844, and A. M., 1847; President of St. John's College (Maryland), 1867; LL. D., Columbian University, 1868; Professor of Belles-Lettres, Princeton College, 1870; President of Columbian University, 1871; President of Corean Gallery of Art, 1877; Regent of Smithsonian Institution, 1884, and Chairman of its Executive Committee, 1886; Director of the National Deaf-Mute College, 1888. 1302 Connecticut Avenue.

**CLEVELAND ABBE**, *Professor of Meteorology.*

A. B., 1857; A. M., 1860; Ph. D., 1891, New York City College; LL. D., University of Michigan, 1889. 2017 I Street NW.

**G. N. ACKER**, *Demonstrator of Pathological Histology and Clinical Professor of Medicine.*

A. B., 1872; A. M., 1875, Penn College; M. D., University of Berlin, 1877. 913 Sixteenth Street NW.

**SAMUEL S. ADAMS**, *Clinical Professor of Diseases of Children.*

A. M., University of West Virginia, 1875; M. D., Georgetown University, 1879. 1802 K Street NW.

**CYRUS ADLER**, *Professor of Oriental History.*

A. B., University of Pennsylvania, 1883; A. M., 1886; Ph. D., Johns Hopkins University, 1887. 943 K Street NW.

**LOUIS AMATEIS**, *Assistant in Architectural Drawing.*

Gold Medallist Academy of Fine Arts, Turin. 1717 Nineteenth Street.

**WOOLSEY ASPINWALL**, *Instructor in English.*

1464 Rhode Island Avenue.

**FRANK LLOYD AVERILL**, *Assistant in Field Engineering.*

C. E., Columbian University, 1891. 1616 Fifteenth Street NW.

**FRANK HAGAR BIGELOW**, *Professor of Solar Physics.*

A. B., 1873; A. M., Harvard, 1880; Assistant at Cordova; Nautical Almanac Office, 1889; United States Weather Bureau, 1891. 1625 Massachusetts Avenue.



**HENRY CARRINGTON BOLTON**, *Non-resident Lecturer on the History of Chemistry.*

A. M., Columbia College, 1862; Ph. D., Göttingen, 1866. Assistant in Analytical Chemistry, School of Mines, Columbia College, 1872. Professor of Chemistry, Woman's Medical College, New York, 1875. Professor of Chemistry, Trinity College, Connecticut, 1877. President New York Association of Scientists, 1880. University Club, New York.

**ANDREW C. BRADLEY**, *Lecturer on Criminal Law and on Criminal Pleading and Practice.*

Associate Justice of the Supreme Court of the District of Columbia.

**DAVID J. BREWER**, *Professor of the Law of Corporations.*

A. B., Yale College, 1860; LL. B., Albany Law School, 1868. Judge of Kansas District Court, 1869. Justice of Kansas Supreme Court, 1870. Judge of United States Circuit Court, 1884. Associate Justice of United States Supreme Court, 1889.

**HENRY ANDREWS BUMSTEAD**, *Assistant in Physics.*

A. B., Johns Hopkins University, 1891. 1006 Madison Avenue, Baltimore, Md.

**WILLIAM K. BUTLER**, *Professor of Ophthalmology.*

A. M., 1879; M. D., 1882, Columbia University.

1207 M Street NW.

**WILLIAM P. CARR**, *Professor of Physiology.*

M. D., Columbia University, 1888.

1103 Thirteenth Street NW.

**THOMAS MAREAN CHATARD**, *Lecturer on Chemical Engineering.*

A. B., Harvard, 1871; Ph. D., Heidelberg, 1876.

1738 K Street NW.

**JOHN J. CHICKERING**, *Associate Principal, Preparatory School.*

A. M., Amherst, 1879; LL. M., Columbia University, 1880.

Kendall Green, D. C.

**ALEXANDER SMYTH CHRISTIE**, *Professor of Mathematical Physics.*

Chief of Tidal Division, United States Coast and Geodetic Survey, 1885. LL. B., Columbia University, 1885; LL. M., National University Law School, 1888.

115 Fourth Street NE.

**FRANK WIGGLESWORTH CLARKE**, *Professor of Mineral Chemistry.*

S. B., Harvard, 1867; Chief Chemist, United States Geological Survey, 1880.

1612 Riggs Place NW.

**GEORGE V. CHANDLER**, *Assistant in Mineralogy and Geology.*

Examiner United States Patent Office.

213 C Street SE.

**WALTER S. COX**, *Professor of the Law of Real and Personal Property, of Contracts, and of Crimes and Misdemeanors.*

A. B., Georgetown College, 1843; A. M., 1845. LL. B., Harvard University Law School, 1847; LL. D., Columbia University, 1875. Associate Justice Supreme Court of the District of Columbia, 1879; Trustee of Georgetown University, 1888.

1001 I Street NW.

**ANDREW FULLER CRAVEN**, *Assistant Professor of Economics.*

LL. B., Chicago University, 1892; A. B., Harvard University, 1880.

Columbia University.

**A. F. A. KING, Professor of Obstetrics and Gynecology.**

M. D., Columbia University, 1861; M. D., University of Pennsylvania, 1863;  
Honorary A. M., University of Vermont, 1884.  
131 Massachusetts Avenue NW.

**HARRY KING, Professor of Drawing.**

L.L. B., Columbia University, 1870.  
United States Geological Survey.

**FRANK HALL KNOWLTON, Professor of Botany.**

B. S., 1894; M. S., 1897, Middlebury.  
United States National Museum.

**FRANK LEECH, Clinical Assistant.**

M. D., Columbia University, 1891.  
Guthrie Hospital.

**WILLIAM LEE, Professor of Physiology.**

M. D., College of Physicians and Surgeons, New York.  
1821 F Street NW.

**J. S. LEMON, Lecturer on Psycho-Physics.**

A. B., 1894; A. M., 1897, Wesleyan, Conn.

**EXUM PERCY LEWIS, Instructor in Physics.**

B. S., Columbia University, 1888.  
1407 Vermont Avenue.

**J. HALL LEWIS, Professor of Dental Prosthetics.**

D. D. S., Baltimore College of Dentistry, 1879.  
129 F Street NW.

**N. S. LINCOLN, Emeritus Professor of Surgery.**

A. B., Dartmouth, 1850; M. D., University of Maryland, 1857.  
Surgeon, United States Army, 1861-69.  
Acting Assistant  
1114 H Street NW.

**LEE DAVIS LODGE, Professor of French and Philosophy.**

A. M., 1885; Ph. D., 1892, Columbia University.  
Georgetown, Md.

**THOMAS E. McARDLE, Professor of Minor Surgery.**

A. M., University of Saint Mary's, Baltimore, 1879; M. D., Georgetown University,  
1879.  
812 Seventeenth Street NW.

**LOUIS MACKALL, JR., Assistant Demonstrator of Anatomy.**

M. D., Columbia University, 1890.  
120 Thirtieth Street NW.

**ROBERT H. MARTIN, Financial Agent.**

1608 Seventeenth Street NW.

**OTIS TUFTON MASON, Lecturer on Anthropology.**

A. B., 1861; A. M., 1862; Ph. D., 1879, Georgetown University.  
Chairman, Department  
of Anthropology, U. S. National Museum, 1884.  
Lect. Farmers' School  
of Instruction, Philadelphia, of the West, 1889.  
1777 Massachusetts Avenue NW.

**WILLIAM F. MATTINGLY, Lecturer on Practical Commercial Law.**

Ph. B., 1857; A. M., 1861, Columbia University.  
1616 H Street NW.

**WILLIAM A. MAURY, Professor of Equity Jurisprudence, of Common Law and Equity Pleading, and of the Law of Evidence.**

L.L. B., Harvard, 1853; L.L. D., Georgetown University, 1880.  
Assistant Attorney  
General of the United States, 1882.  
1367 Massachusetts Avenue NW.



**GEORGE P. MERRILL**, *Professor of Geology*.

B. S., 1870; M. S., 1882; Ph. D., 1889, State University of Maine. Assistant in Chemistry, Wesleyan University, 1880. Assistant Lecturer, State Normal School, 1889; Curator, Department of Geology, United States National Museum, 1886.

**VICTOR MINDELEFF**, *Assistant in Modelling*.

Ohio Bank Building.

**ANDREW PHILIP MONTAGUE**, *Professor of Latin*.

A. M., 1879; Ph. D., 1888, Columbia University.

1514 Colonial Street.

**VERANUS A. MOORE**, *Assistant Demonstrator of Pathological Histology*.

B. S., Cornell University, 1887. Assistant Demonstrator, Cornell University, 1887; M. D., Columbia University, 1890. Assistant, Inspector, 1890.

**CHARLES EDWARD MUNROE**, *Professor of Chemistry*.

S. B., 1871, Harvard. Assistant in Chemistry, Harvard University, 1871-74. Professor of Chemistry, United States Naval Academy, 1874-80. Assistant to the Surgeon, United States Navy, 1880-82.

1322 H Street NW.

**H. B. NOBLE, Sr.**, *Clinical Operator*.

D. D. S., Baltimore College of Dental Surgeons, 1857. 1334 New York Avenue NW.

**THEODORE E. OERTEL**, *Professor of the Chair of Anatomy*.

M. D., Columbian University, 1892.

2210 M Street NW.

**A. CLARK PATTERSON**, *Professor of Mental Diseases*.

M. D., Columbian University, 1870.

Government Hospital for the Insane.

**WILLIAM F. R. PHILLIPS**, *Professor of the Chair of Anatomy*.

M. D., Columbian University, 1888.

900 M Street NW.

**JOSIAH PIERCE, Jr.**, *Lecturer on Topographical Surveying*.

B. A., 1892; M. A., 1896, Emmanuel College (Cambridge, England).

1320 Massachusetts Avenue NW.

**D. WEBSTER PRENTISS**, *Professor of Materia Medica and Therapeutics*.

Ph. B., 1861; A. M., 1864, Columbian College. M. D., University of Pennsylvania, 1864.

1101 Fourteenth Street NW.

**H. A. PRESSEY**, *Assistant in Physics*.

14 Third Street NE.

**HENRY ROGERS PYNE**, *Assistant in Latin*.

1702 S Street NW.

**MARATHON MONTAGUE RAMSEY**, *Assistant in Spanish*.

2020 H Street NW.

**HERBERT LOUIS RICE**, *Assistant in Astronomy*.

Nautical Almanac Office.

**CHARLES W. RICHARDSON**, *Professor of Laryngology and Otology*.

M. D., Columbian University, 1894; University of Pennsylvania, 1884.

1402 I Street NW.

**ALVA SIGEL ROUSH, Assistant Demonstrator.**

A. M., Ohio University, 1884; M. S., Medical College of Ohio, 1887; M. D., St. Bartholomew's, London, 1889; D. D. S., Columbian University, 1892.  
716 Eleventh Street N.W.

**STERLING RUFFIN, Professor of Medical Jurisprudence.**

M. D., Columbian University, 1899.

Treasury Department.

**HERMANN SCHOENFELD, Professor of German.**

Ph. D., Leipzig, 1887.

1108 H Street N.E.

**D. K. SHUTE, Professor of Anatomy.**

A. B., 1879; M. D., 1888, Columbian University.

1321 Q Street N.W.

**SAMUEL M. SHUTE, Professor of the English Language and Literature.**

A. B., 1841; A. M., University of Pennsylvania, 1847; D. D., Mercer University, Georgia, 1869.  
1321 Q Street N.W.

**EMIL A. DE SCHWEINITZ, Professor of Chemistry and Toxicology.**

A. B., 1882; A. M., 1884, University of North Carolina; Ph. D., Göttingen, 1889.  
1732 K Street N.W.

**WILLIAM EDGAR SIMONDS, A. M., LL. B., Professor of the Law of Patents.**

A. M., LL. B., Professor of Patent Law, Yale; United States Commissioner of Patents, 1889.  
The Woodmont.

**THEOBALD SMITH, Professor of Bacteriology and Hygiene.**

M. D., Albany Medical College, 1883.

1527 O Street N.W.

**J. CURTIS SMITHE, Clinical Operator.**

D. D. S., Maryland Dental College, 1870; D. D. S., Baltimore College of Dental Surgery, 1872.  
1445 New York Avenue N.W.

**ANTONIO M. SOTELDO, Professor of Spanish.**

LL. D., University of Merida, Venezuela, 1845.

1333 Q Street N.W.

**J. MACBRIDE STERRETT, Professor of Philosophy.**

A. B., University of Rochester, 1867; B. D., Cambridge Episcopal Seminary, 1872; D. D., University of Rochester, 1886.  
Pierce Mts. Road

**CHARLES WORDELL STILES, Instructor in Histology.**

A. M.; Ph. D., Leipzig, 1890.

United States Department of Agriculture.

**HENRY C. THOMPSON, Professor of Operative Dentistry.**

D. D. S., Philadelphia College Dental Surgery, 1891.

1113 Pennsylvania Avenue N.W.

**J. FORD THOMPSON, Professor of Surgery.**

M. D., University of Maryland; Acting Assistant Surgeon, United States Army, 1864-'65.  
804 Seventeenth Street N.W.

**ERNEST LAUGHTON THURSTON, Assistant in Engineering.**

1265 R Street N.W.



**EDMUND E. TOMPKINS**, *Clinical Professor of Diseases of the Nervous System.*

M. D., University of Virginia, 1885; M. D., New York Graduate School, 1888.  
826 Fourteenth Street NW.

**JOHN VAN RENSSELAER**, *Assistant Demonstrator of Anatomy.*

A. B., Hobart College, 1882; M. D., Columbian University, 1889.  
916 Fourteenth Street NW.

**JOHN R. WELLINGTON**, *Demonstrator of Minor Surgery.*

Resident Physician, Children's Hospital; M. D., Columbian University, 1891.  
Children's Hospital.

**CABELL WHITEHEAD**, *Assistant in Assaying.*

B. M., 1885, Lehigh; Chief Assayer of the Bureau of the Mint, United States Treasury Department.  
1114 New Hampshire Avenue.

**HARVEY WASHINGTON WILEY**, *Professor of Agricultural Chemistry.*

A. B., 1867; A. M., 1870; Ph. D., 1876, Hanover College; S. B., 1875, Harvard; M. D., 1871, Indiana Medical College.  
1314 Tenth Street NW.

**WILLIAM CRAWFORD WINLOCK**, *Professor of Astronomy.*

A. B., 1880, Harvard; Curator of Exchanges, Smithsonian Institution, 1888.  
2005 O Street NW.

**FRANK A. WOLFF**, *Assistant in Physics.*

B. A., Johns Hopkins University, 1890.  
Baltimore, Md.

**AUGUSTUS S. WORTHINGTON**, *Lecturer on Legal Bibliography and the Use of Authorities in Court.*

LL. B., 1868, Columbian University; United States District Attorney, District of Columbia, 1884-'88.  
207 Massachusetts Avenue NW.

**H. C. YARROW**, *Professor of Dermatology.*

M. D., University of Pennsylvania, 1861; Surgeon First Pennsylvania Cavalry.  
814 Seventeenth Street NW.

**WILLIAM SMITH YEATES**, *Professor of Mineralogy and Geology.*

A. B., 1878; A. M., 1881, Emory and Henry.  
15 Grant Place NW.

**GLENDIE B. YOUNG**, *Assistant Demonstrator of Anatomy.*

M. D., 1888; Assistant Demonstrator of Anatomy, 1889, Georgetown University.  
750 Broadway Street NW.

**Janitors.**

**FRANK BECKET**, *Law Building.*

**DANIEL CONNOR**, *Medical School.*

**RIXON T. HARRIS**, *University Building.*

**WALTER HONESTY**, *Preparatory School.*

**WALTER L. LEWIS**, *University Building.*





## THE LAW SCHOOL.

### The Faculty.

JAMES C. WELLING, LL.D., *PRESIDENT*,  
Professor of Public and Private International Law.

THE HON. JOHN M. HARLAN, LL.D.,  
(Associate Justice of the Supreme Court of the United States,  
Professor of the Constitutional Jurisprudence of the United States, of the  
Law of Domestic Relations, of Commercial Paper, and of Torts.

THE HON. WALTER S. COX, LL.D.,  
(Associate Justice of the Supreme Court of the District of Columbia,  
Professor of the Law of Real and Personal Property, of Contracts, and  
of Crimes and Misdemeanors.

THE HON. WILLIAM A. MAURY, LL.D.,  
(Assistant Attorney General of the United States,  
Professor of Equity Jurisprudence, of Common Law and Equity Pleading,  
and of the Law of Evidence.

THE HON. DAVID J. BREWER, LL.D.,  
(Associate Justice of the Supreme Court of the United States,  
Professor of the Law of Corporations.

PROF. G. H. EMMOTT, A.M., LL.M.,  
(of the Johns Hopkins University,  
Lecturer on the Civil Law.

HENRY E. DAVIS, A.M., LL.M.,  
(Sometime Assistant Attorney of the District of Columbia,  
Lecturer on the History of Law.

THE HON. AUGUSTUS S. WORTHINGTON, LL.B.,  
(Sometime District Attorney of the United States,  
Lecturer on Legal Bibliography and the Use of Authorities in Court.

**WILLIAM F. MATTINGLY, Esq.,**  
(of the Washington Bar.)  
Lecturer on Practical Commercial Law.

**THE HON. WILLIAM EDGAR SIMONDS, A.M., LL.B.,**  
(United States Commissioner of Patents,  
Professor of the Law of Patents.

**THE HON. ANDREW C. BRADLEY,**  
(Associate Justice of the Supreme Court of the District of Columbia.)  
Lecturer on Criminal Law and on Criminal Pleading and Practice.

**WILLIAM G. JOHNSON, LL.M.,**  
(of the Washington Bar.)  
Professor of Legal Catechetics and Judge of Moot Court.

The Law School of the Columbian University is held in the University Building, situated on the southeast corner of Fifteenth and H streets, only a few steps from the Executive Mansion and the Executive Departments of the Government.

#### **Admission.**

The course of study is adapted to graduates of colleges and to any who have attained a competent discipline of their mental powers. No one is admitted as a candidate for graduation in the Senior Class who has not spent one year either at this or some other law school or performed a corresponding amount of study under the direction of a member of the bar.

#### **Matriculation.**

No fee is charged for Matriculation, but at least one month's tuition must be paid in advance on registration. The register will be open for the enrollment of students on the first day of September. Seats in the Lecture Hall will be assigned to students in the order of their registration, but seats so assigned will be forfeited on the non-payment of monthly dues.

#### **Sessions.**

The entire course of study in the undergraduate department embraces two years. The annual session begins on the first Wednesday of October and ends on the Tuesday next before the second Wednesday in June. The exercises of the School begin daily at 6 o'clock p. m., an arrangement which enables the University to profit by the services of eminent jurists engaged in the public service at Washington, and gives to students



the entire day for study, for reading in the law libraries, or for attending the several Courts at the Federal Capital, besides permitting young men engaged in office duties to enjoy the facilities of the School.

### Course of Instruction.

The School has three classes, a Junior and a Senior in the undergraduate department and a graduate Class in Practice.

#### Junior Class

#### PROFESSOR COX.

*(Associate Justice of the Supreme Court of the District of Columbia.)*

The instructor of the Junior Class, aiming to secure for his pupils as thorough and accurate a knowledge of the law of real and personal property, of contracts, and of crimes and misdemeanors as it is possible for them to attain within the brief period of a scholastic year, places in their hands successively Blackstone's Commentaries, Kent's Commentaries, Parsons on Contracts, and Byles on Bills, as text books, to be carefully read and studied. He meets the class on Tuesday, Thursday, and Saturday of each week. For each meeting a lesson of moderate length is assigned, and the lesson for the evening forms the subject of his lecture. In his lecture he reviews, illustrates, and simplifies, as far as he can, the teachings of the lesson, shows how far and in what particulars the law contained in it has been repealed or modified, either by English or American statutes or by the American common law, and tries to remove the doubts and uncertainties that are apt to trouble and perplex those entering for the first time upon the study of law, and to insure a careful reading of the lesson and proper attention to his lecture, he, at the close of the latter, questions the class upon the important points of each.

#### On Domestic Relations, on Commercial Paper, and on Torts.

#### PROFESSOR HARLAN.

*(Associate Justice of the Supreme Court of the United States.)*

Mr. Justice HARLAN gives a course of lectures on each of these subjects. While he follows the general order and arrangement in respect to them pursued respectively in Schouler's Domestic Relations, Byles on Bills and Pollock on Torts, there is no mere study of these as text books. Mr. Justice HARLAN'S aim is rather to take leading cases on the various topics, and by discussion of those cases to explain, illustrate, and make distinct the rules and principles of these different departments of law. He also calls upon the students to prepare and read to him criticisms on some of the cases he discusses, and thus invites the active effort of

all to extract from the opinions the precise matters decided and the reasons therefor. In this way he strives to counteract the tendency to become mere case lawyers and turns the attention to the matter of foundation principles. This course extends through the whole scholastic year.

#### The Senior Class.

#### PROFESSOR MAURY,

(Assistant Attorney General of the United States.)

The students of the Senior Class meet the Professor charged with their special instruction on Monday, Wednesday, and Friday of each week, and, while pursuing the special studies of the Senior course, are required to go a second time through the course of the Junior year, that they may be thoroughly grounded in the law of real and personal property and of contracts.

The special studies of the Senior year begin with Common Law Pleading, in which Stephen on Pleading, as edited by Tyler, is used as the text book of the class. Next follow instructions on the Law of Evidence, with the first volume of Greenleaf on Evidence as a manual. To these succeed instructions in Equity Jurisprudence and Equity Pleading and Practice, Smith's Manual of Equity and Mitford and Tyler's Pleadings and Practice in Equity being the text books used under these heads. The closing part of the course is occupied with the Law of Partnership considered in itself and in its relations to remedies afforded in courts of equity; and, because of their especial character, lectures are given on the remedies, Ejectments, Quo Warranto, Scire Facias, and Mandamus, as also lectures, by way of review, on Pleading and on Evidence, delivered at the close of the whole course.

The method of instruction pursued in this class is as follows: A lesson, comprising a certain number of pages in the text book, is assigned to the class, and on the subject-matter of this lesson the Professor, at his next meeting, lectures according to the requirements of the case. At the next meeting he examines the class on the text and lecture of the preceding meeting, using for this purpose carefully written questions and calling up indiscriminately the members of the class.

#### Legal Catechetics.

#### PROFESSOR WILLIAM M. JOHNSON.

The lectures of Professor Cox and of Professor MAURY in the undergraduate department are followed by oral "quizzes" (extending through a whole hour on four days of each week) conducted by Professor WILLIAM M. JOHNSON, a graduate of the School who is familiar with its methods of



instruction. His "quizzes" are additional and supplemental to those of the Professors.

By this catechetical analysis, which proceeds on the basis of carefully prepared questions designed to exhaust the contents of the text books and the lectures, the student is called to expound with clearness and to reproduce with readiness the principles of law explained in both.

It is hoped that such a *cum gratia* review, by emphasizing the explication of difficult points, will not only impress these points on the memory of the student, but will also train him to a useful self command in their prompt enunciation.

### **Constitutional Law.**

#### **PROFESSOR HARLAN.**

*(Associate Justice of the Supreme Court of the United States.)*

A course of Lectures on the Constitution of the United States, extending through the whole of each scholastic year, is delivered by Mr Justice HARLAN, of the Supreme Court of the United States.

In this course the Student is first made acquainted with the principles of Constitutional Law which had been established in England at the time our Government was organized, as well as with the history of the origin and formation of the Constitution of the United States. It is sought to show how far the Constitution, in its underlying principles, was an orderly and progressive evolution of political ideas in the British race, and how far, in its special structure and provisions, it was a new creation, adapted by its framers to the conditions and wants of the American States and people at the date of its formation. Next follows an examination of each separate clause of the Constitution, with a discussion of the leading adjudications which show how each clause of the instrument has been interpreted by the courts, especially by the Supreme Court of the United States.

These Lectures are delivered every Saturday and are open to both the graduate and undergraduate classes of the School.

### **Law of Corporations**

#### **PROFESSOR BREWER.**

*(Associate Justice of the Supreme Court of the United States.)*

To those who are engaged in the every-day work of the profession no branch of the law is of greater practical importance than the law of corporations. So much of the business, and the great business, of the day is done by corporations that they furnish a large amount of the litigation; and, because of such importance, special attention is given to it in this School. An extensive course of lectures is delivered by Mr Justice

Between in which the fundamental principles, as early established, and the modifications and adaptations of those principles to the work of corporations in the business of to-day, as settled by the more modern authorities, are fully developed. The study in these lectures is not confined to private corporations, but includes also the subject of municipal corporations and the differences between the implied powers and liabilities of these two kinds of corporations and the reasons therefor are explained. This course extends through a large part of the year.

#### **International Law.**

PRESIDENT WELLING.

After a discussion of International law in its nature, foundation, and distinctive quality, as exhibited in its genetic ideas and in the laws of its historical growth, the instructor seeks to give a brief exposition of the fundamental principles which constitute the body of this supreme jurisprudence, with their most important applications, alike to the conduct of nations and the conduct of individuals.

These Lectures are open to both the graduate and the undergraduate classes of the School.

#### **The Civil Law.**

PROFESSOR EMMOTT.

Professor GEORGE H. EMMOTT, A. M., LL. M., of the Johns Hopkins University, a graduate of the University of Cambridge, England, delivers every year a course of Lectures on the Civil Law, in which the principles of the Roman jurisprudence are expounded under given heads, as well for their intrinsic historical interest as for the light they shed on English Common Law.

#### **Law of Patents**

PROFESSOR SIMONDS.

The Hon. WILLIAM E. SIMONDS, U. S. Commissioner of Patents, delivers a course of lectures on the Law of Patents, in which, after tracing the origin and growth of our Federal Patent system, he discusses, as far as practicable, the nature of Patent Property and the general nature of Patent Practice considered in its special modes of procedure.

#### **Societies for Legal Debate and Study.**

A Debating Society is organized by students of the School for purposes of investigation, discussion, and practice in parliamentary law. The



Society holds public exercises under the auspices of the University at the close of each scholastic year. Special classes, "Quiz clubs," are also formed for purposes of associated study.

#### Library and Reading-room

A Law Library, comprising the works of standard text writers, the British and American Reports, books of reference, etc., is open for purposes of study and consultation daily from 9 o'clock a. m. to 10 o'clock p. m. Attached to the Library is a reading-room supplied with Law Reviews and Law Periodicals, as well as with other leading reviews and periodicals in science and literature.

The Library of the Department of Justice, comprising over 22,000 volumes, is open to law students for reference or study and is situated within a two minutes' walk of the University.

#### Special Facilities

Besides this Law Library of the Department of Justice, the Law Library of the United States Supreme Court, containing the largest collection of law books in the country, is open to all who wish to examine any authority or to take notes from any book of reference in ancient or modern jurisprudence. This collection, alike by its variety and its number, lends itself to the study of the world's comparative jurisprudence. The different methods of judicial procedure can be studied at the National Capital not only in the Common Law Courts and Federal Courts of the District of Columbia, but also in the Court of Claims and in the Supreme Court of the United States. The Patent Laws, the Land Laws, and the Pension Laws of the United States are here administered in the Executive Bureaus of the Government.

#### Examination and Graduation

All candidates for graduation are required to pass a general examination, at the end of the course, on all the studies of the two years, in the presence of the Faculty and of such committee as the Trustees of the University may appoint. This examination is conducted upon printed questions, which are answered by each student in writing.

The degree of Bachelor of Laws is granted to students who, having passed both years of the prescribed course in the School, or who, on presenting credentials of equivalent study for the first year in some law college or office, and passing the second year in the School, shall sustain a satisfactory examination in all the studies of both the Junior and Senior classes.

The time spent in the Law School of the University is counted as part of the period of study required for admission to the bar of the Supreme Court of the District of Columbia.

#### Prizes.

A prize of \$100, called "The Parker Prize," in honor of its donor, Myron M. Parker, Esq., is awarded to the student who passes in each year the best examination for the degree of Bachelor of Laws.

A prize of \$50, called "The Britton Prize," in honor of its founder, Alexander T. Britton, Esq., is awarded to the student who passes in each year the best examination for the degree of Master of Laws.

Three prizes, one of \$40, one of \$30, and one of \$20, are annually given to the respective authors of the best three essays among all those handed in by such members of the Senior Class as shall compete for them and shall pass a successful examination for the degree of Bachelor of Laws.

Two prizes for excellence in debate are awarded by the Debating Society.

#### Prize Men in 1891 '2

Parker Prize, ROBERT E. WOODS, of Kentucky.

Britton Prize, ARTHUR S. DUDLEY, of Wisconsin.

First Essay Prize, JAMES C. HOGE, of Virginia.

Second Essay Prize, O. M. MATHER, of Kentucky.

Third Essay Prize, ROBERT E. WOODS, of Kentucky.

First Debater's Prize, ROBERT E. WOODS, of Kentucky.

Second Debater's Prize, E. HIRSH JACKSON, of Virginia.

In the award of the Parker Prize WILLIAM OSGOOD, of Illinois; ROBERT E. PARKER, of California; THADDEUS CARR, of New York; WALTER M. CAMPBELL, of Michigan; CHARLES F. CONNELL, of Michigan, and RICHARD NIXON, of Louisiana; and in the award of the Britton Prize, SEYMOUR W. WILLIAMS, of South Carolina; JAS. H. LIGHTFOOT, of Virginia, and PAUL H. CROMBIE, of the District of Columbia, received Honorable Mention.

#### Commencement.

The degrees are publicly conferred and the prizes delivered at the annual commencement of the Law Department, when, in connection with other appropriate exercises, an address is delivered to the graduating class by an eminent member of the bar whom they and the Faculty may have selected for that purpose.

#### Expenses.

The entire charge for tuition, lectures, and all the facilities of the School is *eighty dollars* for a single year or *one hundred and fifty dollars* for two



scholastic years, payable in advance, half yearly, or in monthly installments, at the option of students. Students who devote three years or more to the preparation for graduation may have this privilege by the payment of *two hundred dollars* for the entire course. If a student shall for any cause intermit the studies of either his first or his second year at any point before graduation the payments he may have made during either or both of these years will not work exemption from the regular monthly dues of any subsequent year on which he may attend the School, but it shall always be open to him to profit by the benefits of the three years' rule. A charge of *ten dollars* is made for diplomas.

Students from abroad can secure Board at reasonable prices. A list of eligible boarding places is always posted on the Bulletin Board of the University.

Graduates of the School are admitted to all lectures of the undergraduate course in subsequent years without charge.

### GRADUATE COURSE IN PRACTICE.

A Graduate course of instruction in Common Law Practice and in Equity Pleadings and Practice, designed to show the application of the principles of law to the transactions of business life and to the actual proceedings of courts, is conducted by Professors MAURY, DAVIS, and JOHNSON, as a supplement to the undergraduate course of the Law School. The course leads to the degree of Master of Laws.

In the Common Law Branch the students use, under the direction of Professor DAVIS, a work on Practice prepared by Professor COX, after which they are exercised in the conduct and trial of causes, and thus taught to apply their theoretical learning in pleadings, practice, and evidence. In connection with this course it is intended that they shall also study some such work as Archibald's *Law of New Trials*. During more than half the term the exercises are those of a *New Trials Moot Court*, presided over by Professor WILLIAM G. JOHNSON, LL.M., a member of the Washington bar and a graduate of the Columbian University Law School.

In the Equity Branch the students are instructed by Professor MAURY in the general principles of equity pleadings and in the mode of conducting an equity case. The text book employed will be Mitford and Tyler's *Equity Pleading and Practice*.

In addition to the instruction in legal and equitable procedure, Professor MAURY delivers a special course of lectures on the jurisdiction, practice, and peculiar jurisprudence of the Courts of the United States.

Candidates for admission to this Graduate course are required to furnish evidence that they have been diligent and successful students of law

rudé germs of the clan stage of human government to the highest evolutions of juridical science, as seen in the Civil Law of Rome, the Common Law of England, and the growing body of International Law. The codes of particular nations and of successive stages in human culture will be passed in review only so far as they mark the successive stages of human progress along the line of civil institutions after the manner of Freeman in his "Comparative Politics" and along the line of legal institutes after the manner of Sir Henry Sumner Maine, Scrutton, Matland, Vinogradoff, and others. It is designed that scientific studies in comparative anthropology shall form the indispensable preliminary to the special inquiries and task work pursued in such a school of advanced studies in jurisprudence, so that the laws of the clan, of the tribe, of the village community, of the Greek city state, of the Roman Empire, and of feudal Europe will be expounded in their proper logical sequence, as preparing the way for a thorough and philosophical study of the English Common Law, of American State and Federal jurisprudence, and of that supreme law of the civilized world, the Law of Nations.

### STUDENTS OF LAW

#### Graduate Class in Practice

Name	Residence
John B. Abbott, LL.B., Columbian University, 1892	New Hampshire
Charles S. Albert, LL.B., Columbian University, 1892.	Pennsylvania.
Perry Allen, LL.B., Columbian University, 1892	Massachusetts.
Cyrus N. Anderson, LL.B., Columbian University, 1892.	Mississippi.
G. C. Ankam, LL.B., Columbian University, 1892	New York.
Edward F. Ayres, A. B., Yale, 1888, A. M., Yale, 1890 LL.B., Columbian University, 1892	Connecticut
J. E. Baker, Charles F. Beale, A. B., Harvard, 1880.	District of Columbia New York.
Wm. Du Val Brown, LL.B., Columbian University, 1892.	District of Columbia
G. Burroughs, LL.B., Columbian University, 1892.	District of Columbia



Name.	Residence.
Charles N. Butler, C. E., Lehigh, 1888. LL.B., Columbian University, 1892.	Pennsylvania.
Elias N. Butts, LL.B., Columbian University, 1892.	New York.
Thaddeus Cahill, A. B. LL.B., Columbian University, 1892.	New York.
W. F. Clyborne, LL.B., Columbian University, 1892.	California.
Charles F. Consmul, LL.B., Columbian University, 1892.	Michigan.
James A. Davidson, LL.B., Columbian University, 1892.	New York.
Walter W. Davis, LL.B., Columbian University, 1892.	Kansas.
F. C. Dezendorf, LL.B., Columbian University, 1892.	Virginia.
Victor L. Dodge, LL.B., Columbian University, 1892.	District of Columbia.
F. J. Dunn, LL.B., Indiana University, 1892.	Indiana.
Charles F. Fadeley, LL.B., Columbian University, 1892.	Virginia.
E. Hayward Fairbanks, B. S., Worcester Polytechnic Institute, 1887. LL.B., Columbian University, 1892.	Massachusetts.
Theodore C. Fenton, Graduate United States Naval Academy, 1885. LL.B., Columbian University, 1892.	Pennsylvania.
Howard W. Fitz, LL.B., Columbian University, 1892.	Rhode Island.
D. Kelsey Fitzhugh, A. B., Baylor University, 1887. LL.B., Columbian University, 1892.	District of Columbia.
C. Eugene Foote, LL.B., Columbian University, 1892.	Ohio.
Richard A. Ford, LL.B., Columbian University, 1892.	South Carolina.
P. J. Galligan, LL.B., Columbian University, 1892.	Iowa.

Name	Residence.
A. I. Gardner, B. S., Worcester Polytechnic Institute, 1889. LL. B., Columbian University, 1892.	Massachusetts.
Arthur H. Giles, LL. B., Columbian University, 1892.	New York.
Frank Lee Graham, LL. B., Columbian University, 1892.	Montana.
Alex. Grant, LL. B., Columbian University, 1892.	Michigan.
J. Colfax Grant, B. S., University of Minnesota, 1890. LL. B., Columbian University, 1892.	Minnesota.
Charles J. Groseclose, A. B., Roanoke College, 1882. LL. B., Columbian University, 1892.	Virginia.
Henry Hawshurst, LL. B., Columbian University, 1892.	Virginia.
Henry A. Hayward, LL. B., Columbian University, 1892.	Minnesota.
M. D. Henscy, LL. B., Columbian University, 1892.	District of Columbia.
Daniel Higgins, LL. B., Columbian University, 1892.	Utah.
Percy B. Hills, LL. B., Columbian University, 1892.	District of Columbia.
H. Stanley Hincks, LL. B., Columbian University, 1892.	District of Columbia.
James C. Hoce, LL. B., Columbian University, 1892.	District of Columbia.
Allan J. Houghton, LL. B., Columbian University, 1892.	District of Columbia.
Harry P. Huddeson, LL. B., Columbian University, 1892.	Missouri.
George M. Hull, LL. B., De Pauw University, 1890.	Wisconsin.
E. Hilton Jackson, A. B., Columbian University, 1891. LL. B., Columbian University, 1892.	Virginia.
G. Sherman James, LL. B., Columbian University, 1892.	District of Columbia.
Ernest W. Jones,	Ohio.



Name.	Residence.
John E. Laskey, LL.B., Columbian University, 1892.	District of Columbia.
F. C. Lawyer, LL.B., Columbian University, 1892.	District of Columbia.
Jesse B. K. Lee, LL.B., Columbian University, 1892.	District of Columbia.
Walter I. Lembkey, LL.B., Columbian University, 1892.	Pennsylvania.
R. L. Lerch, Graduate U. S. Naval Academy, 1883. LL.B., Columbian University, 1892.	Ohio.
P. S. Lowry, LL.B., National University, 1892.	Ohio.
J. H. McElroy, A. M., De Pauw University, 1891. LL.B., Columbian University, 1892.	Illinois.
O. M. Mather, LL.B., Columbian University, 1892.	Kentucky.
Robert E. Mattingly, LL.B., Georgetown University, 1891. LL.M., Georgetown University, 1892.	District of Columbia.
George H. Maxwell, A. B., Syracuse University, 1888. A. M., Syracuse University, 1891.	New York.
F. P. Mendenhall, LL.B., Columbian University, 1892.	District of Columbia.
A. E. H. Middleton, F. M. P. Montague, LL.B., Columbian University, 1892.	South Carolina. Virginia.
John D. Morgan, LL.B., Columbian University, 1892.	Washington.
Edward Grant Niles, B. S., Maryland Agricultural College, 1890. LL.B., Columbian University, 1892.	Maryland.
Richard Nixon, LL.B., Columbian University, 1892.	Louisiana.
Whitman Osgood, LL.B., Columbian University, 1892.	Illinois.
B. E. Padgett, LL.B., University of Virginia, 1885.	Maryland.
Robert E. Parker, LL.B., Columbian University, 1892.	California.

Name	Residence.
James W. Byler,	Missouri.
William I. Campbell,	Pennsylvania.
U. S. Catlett,	Tennessee.
W. J. Clark,	Alabama.
Green Clay,	Kentucky.
Alden M. Collins,	Virginia.
S. J. Collinsgin,	Maryland.
A. V. Cushman,	Massachusetts.
George F. Daggett,	Maine.
Frank E. Dennett,	Maine.
A. B., Bowdoin College, 1890.	
F. L. Dennie,	North Dakota.
George W. Drew,	District of Columbia.
John Joy Edson, Jr.,	District of Columbia.
J. Wm. Ellis,	New York.
Ph. B., Cornell, 1890.	
E. L. Eustaphieve,	Virginia.
F. De Courcy Faust,	District of Columbia.
James A. Finch,	New York.
L. H. Finney, Jr.,	Virginia.
Albert F. Flint,	District of Columbia.
Charles F. Frailey,	Massachusetts.
A. B., Columbian University, 1891.	
Paul Trapier Gadsden,	South Carolina.
A. M., University of the South, 1891.	
Corydon Garrett,	Missouri.
Charles D. Geddes,	Minnesota.
W. G. Gideon,	Missouri.
George I. Gilbert,	Illinois.
A. B., Doane College, 1890.	
Horace D. Goodale,	New York.
Edward C. Goodwin,	New York.
O. W. Goodwin,	Wisconsin.
M. Le Roy Gough,	District of Columbia.
Irving H. Griswold,	Ohio.
H. M. Gunderson,	Wisconsin.
C. A. Hansmann,	Missouri.
Wm. E. Harvey,	Missouri.
John K. Hench,	Pennsylvania.
J. B. Henderson, Jr.,	Missouri.
John A. Higley,	New York.



Name	Residence
Myron F. Hill, A. B., Harvard, 1890. A. M., Haverford, 1891.	Massachusetts.
W. B. Hoggatt, Charles E. Howe, Kepler Hoyt, A. B., University of Denver, 1891.	Indiana. Pennsylvania. Wyoming.
Malcolm Huff, A. L. Jackson, Sydney R. Jacobs, Stephen Jannus, J. Burr Johnson, Ernest W. Jones, Louis G. Jullin, Wm. H. Keller, A. B., Franklin and Marshall College, 1891.	District of Columbia. Texas. Wisconsin. District of Columbia. Maryland. Ohio. District of Columbia. Pennsylvania.
W. Maurice Kelly, A. B., Princeton, 1891.	Oregon.
Messmore Kendall, F. Henry Kiser, H. Lee Landers, B. Peyton Legaré, B. S., Hobart College, 1888.	Colorado. Wisconsin. Maryland. South Carolina.
Harris Lindsley, J. Arthur Lynham, Charles L. McCawley, J. T. Macey, Walker D. Maclean, A. B., Columbian University, 1891.	District of Columbia. Virginia. District of Columbia. New York. Illinois.
R. L. Madrox, John T. Manier, B. S., A. and M. College of Mississippi, 1889.	Kentucky. Mississippi.
W. S. Maple, R. Bowman Matthews, F. G. Mauldin, Graduate of U. S. Military Academy, 1890.	Indiana. Louisiana. South Carolina.
Lloyd T. Meeds, George Clendenin Meigs, Edward Menocal, Fred. Merritt, J. G. Meyers, Jr.,	District of Columbia. District of Columbia. District of Columbia. Illinois. District of Columbia.

Name	Residence.
F. Dabney Miller,	Mississippi.
R. F. Miller.	District of Columbia.
George M. Moore,	Missouri.
J. N. Morrison,	Missouri.
Charles S. Muir,	District of Columbia.
W. Harvey Muzzy,	District of Columbia.
E. C. O'Brien,	New York.
E. C. O'Connell,	Vermont.
Wm. A. Pless,	Tennessee.
J. Garland Pollard,	Virginia.
John P. Pryor,	Texas.
Howard S. Reeside,	Pennsylvania.
Eugene Rhodes,	Kansas.
E. S. Rockwell,	New York.
Louis A. Rosafy,	North Carolina.
Morris E. Sabin,	Wisconsin.
F. F. Sams,	Illinois.
F. H. Sanford,	New York.
A. B., Yale, 1889.	
G. B. M. Schadmann,	Pennsylvania.
A. B., Racine College, 1886.	
A. M., Racine College, 1889.	
George H. Shields, Jr.,	District of Columbia.
A. B., Princeton, 1891.	
Wm. F. Shute,	District of Columbia.
Carroll W. Smith,	District of Columbia.
Charles M. Smith,	Vermont.
D. L. Smith,	New Hampshire.
A. B., Dartmouth, 1891.	
Felix O. Smith,	Vermont.
Luther F. Speer,	Pennsylvania.
Bernard H. Taylor,	Illinois.
Frank Tharin,	South Carolina.
Corcoran Thom,	Maryland.
J. H. Thomas,	Missouri.
T. C. Thomas,	Ohio.
Christian A. Tingwold,	Minnesota.
Edward D. Tittmann,	Missouri.
Wm. Sydenham Torbert,	Maryland.
S. Brooks Townes,	South Carolina.
Addison C. Townsend,	Nebraska.



Name.	Residence.
Ralph R. Upton,	District of Columbia.
E. W. Van Dyke,	District of Columbia.
F. R. Vogelgesang,	Virginia.
M. A. Watson,	California.
Willoughby L. Webb,	Maryland.
Harry Weber,	Illinois.
Philip P. Wells,	Connecticut.
A. B., Yale, 1889.	
Irvin C. Williams,	Pennsylvania.
A. B., Ursinus College, 1891.	
Walter A. Wilson,	Ohio.
A. L. Wood,	New Jersey.
Windom S. Woodworth,	Virginia.
E. A. Wright,	Pennsylvania.
C. E., Lehigh, 1889.	
Fred. A. Wright,	Massachusetts.
A. B., Amherst, 1884.	
Herbert Wright,	Pennsylvania.
M. E., Lehigh, 1890.	

Seniors, . . . . . 134

### Juniors.

Name.	Residence.
Fred. Achenbach,	Missouri.
T. A. Aiton,	District of Columbia.
Wm. H. Alexander,	Texas.
Edgar Allan, Jr.,	Virginia.
John B. Allan, Jr.,	Washington.
George R. Anderson,	Virginia.
S. B. Armat,	Virginia.
G. Grant Armor,	Texas.
Franklin E. Barrett,	District of Columbia.
Richard W. Barrett,	Ohio.
W. W. Bedford,	California.
Edwin S. Bethel,	Illinois.
W. R. Blackford,	District of Columbia.
B. S., Columbian University, 1892.	
George H. Brown, Jr.,	Illinois.
George L. Browning,	Virginia.
Joseph A. Burkart,	District of Columbia.

Name	Residence
George H. Chandler,	District of Columbia.
Willoughby S. Chesley,	Maryland.
J. M. Coit,	South Carolina.
B. S., University of South Carolina, 1891.	
M. Argyle Coles,	Virginia.
A. B., Richmond College, 1888.	
P. I. Coryell,	New Jersey.
P. S. Crowe,	Indiana.
Allen A. Davis,	Tennessee.
A. B., S. W. B. University, 1891.	
M. Mason Davis,	Virginia.
Fred. Dennett,	North Dakota.
F. W. Denniston,	Pennsylvania.
A. G. Dingley,	Maine.
A. B., Yale, 1892.	
Frederic S. Doyle,	Pennsylvania.
C. V. Edwards,	District of Columbia.
Selden M. Ely,	Virginia.
M. E., S. N. School, Indiana, Pa., 1888.	
Fred. A. Emery,	District of Columbia.
Wm. H. Ernul,	North Carolina.
Paul Finckel,	District of Columbia.
Cary S. Fry,	Indiana.
H. Prescott Gatley,	District of Columbia.
Harvey Given,	District of Columbia.
Ralph Given,	District of Columbia.
Henry H. Glassie,	Tennessee.
A. B., Johns Hopkins, 1892.	
Jesse P. Gram,	Ohio.
Ph. B., Oberlin College, 1892.	
James M. Gray,	Nebraska.
Thomas Gresham,	Virginia.
John S. Grisard,	Ohio.
John N. Griswold,	New York.
Harry C. Grove,	West Virginia.
H. H. Hanson,	New Hampshire.
A. B., Dartmouth, 1886.	
W. T. Hastings,	Nebraska.
Walter R. Hensey,	District of Columbia.
A. H. Hiller,	Michigan.
Ph. B., Hillsdale, Mich., 1889.	

Name.	Residence.
H. E. Hinman,	District of Columbia.
Frank H. Hitchcock,	Massachusetts.
A. B., Harvard, 1891.	
Francis C. Huebner,	Ohio.
Guy Hamilton Johnson,	District of Columbia.
Frank Kyselka,	Michigan.
C. H. Lauchheimer,	Maryland.
Graduate U. S. Naval Academy, 1881.	
Hedding B. Leech,	District of Columbia.
H. T. A. Lemon,	District of Columbia.
Reeve Lewis,	District of Columbia.
H. H. Logan,	District of Columbia.
James J. McEvilly,	Montana.
L. M. Marble,	District of Columbia.
E. B. Markham,	District of Columbia.
C. L. Marlatt,	Kansas.
M. S., Kansas Agricultural College, 1887.	
Wm. C. Mayo,	Virginia.
H. C. Mead,	Florida.
Joseph T. Miller,	Pennsylvania.
George A. H. Mills,	District of Columbia.
Henry Mohler,	District of Columbia.
O. S. Moncreur,	Virginia.
Franklin Moore,	District of Columbia.
Gales P. Moore,	District of Columbia.
Arthur C. Moses,	District of Columbia.
L. D. Manigault Mowry,	South Carolina.
H. L. Muldrow,	Mississippi.
Harry B. Needham,	Illinois.
D. E. North,	Pennsylvania.
John O'Connell,	Wisconsin.
James A. Oldfield,	West Virginia.
R. H. Orr,	Delaware.
Ezra D. Parker,	Pennsylvania.
F. V. Parker,	Pennsylvania.
F. R. Parks,	District of Columbia.
Sterling Parks,	Ohio.
A. B., University of Michigan, 1888.	
E. H. Parry,	Connecticut.
S. V. Peck,	Iowa.
C. T. Richardson,	District of Columbia.



Name	Residence.
J. B. Russell,	District of Columbia.
Robert L. Russell,	Georgia.
Graduate U. S. Naval Academy, 1885.	
Walter H. Ryland,	Virginia.
A. B., Richmond College, 1891.	
Harold N. Saxton,	New York.
Rudolph B. Schwichardi,	Virginia.
John C. Scofield,	Georgia.
A. B., Middlebury College.	
Charles F. Sensner,	District of Columbia.
H. C. Sheridan,	District of Columbia.
W. W. Smith,	District of Columbia.
J. D. Smoot,	District of Columbia.
B. W. Sommers,	District of Columbia.
A. D. Spangler,	Pennsylvania.
F. M. Starkweather,	Wisconsin.
Robert A. Stickney,	Florida.
Clifford M. Stoy,	District of Columbia.
Julius W. Stuart,	South Carolina.
Harry C. Surguy,	Ohio.
Albert V. Taylor,	Ohio.
Walter C. Taylor,	District of Columbia.
S. E. Tracy,	Texas.
Edward P. Tribble,	Kentucky.
W. C. Valentine,	Nebraska.
H. J. Van Der Beek,	New York.
Horace G. Van Everen,	New York.
A. B., Cornell, 1891.	
Wm. W. Watson,	Indiana.
Edgar V. Werner,	Wisconsin.
W. F. Williams,	Louisiana.
John C. Wilson,	Maryland.
J. R. Wise,	Wisconsin.
B. L., University of Wisconsin, 1888.	

**Special Students in the Law of Patents.**

Name.	Residence.
F. S. Appleman,	District of Columbia.
LL.B., Georgetown University, 1892.	
Charles F. Benjamin,	District of Columbia.
F. J. Benjamin,	District of Columbia.
George S. Goddard,	Connecticut.
F. U. Hayden,	District of Columbia.
Patrick O'Farrell,	District of Columbia.
George M. Whitney,	District of Columbia.
Walter H. Wills,	District of Columbia.

Special Students, . . . . . 8

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Juniors, . . . . .	114
Special Students, . . . . .	8
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## THE MEDICAL SCHOOL.

### The Faculty.

JAMES C. WELLING, LL.D.,  
President.

N. S. LINCOLN, M.D.,  
Emeritus Professor of Surgery.

J. FORD THOMPSON, M.D.,  
Professor of Surgery.

W. W. JOHNSTON, M.D.,  
Professor of the Theory and Practice of Medicine.

A. F. A. KING, A.M., M.D.,  
Professor of Obstetrics and the Diseases of Women and Children, and  
Dean of the Faculty.

WILLIAM LEE, M.D.,  
Professor of Physiology

D. W. PRENTISS, A.M., M.D.,  
Professor of Materia Medica and Therapeutics.

D. KERFOOT SHUTE, A.B., M.D.,  
Professor of Anatomy.

EMIL A. DE SCHWEINITZ, A.M., Ph.D.,  
Professor of Chemistry and Toxicology.

H. C. YARROW, M.D.,  
Professor of Dermatology.

GEORGE BYRD HARRISON, M.D.,  
Professor of Paediatrics.

H. L. E. JOHNSON, M.D.,  
Professor of Gynecology.



THOMAS E. McARDLE, A. M., M. D.,  
Professor of Minor Surgery.

THEOBALD SMITH, M. D.,  
Professor of Bacteriology and Hygiene.

WILLIAM K. BUTLER, M. D.,  
Professor of Ophthalmology.

STERLING RUFFIN, M. D.,  
Professor of Medical Jurisprudence.

CHARLES W. RICHARDSON, M. D.,  
Professor of Laryngology and Otology.

A. CLARK PATTERSON, M. D.,  
Professor of Mental Diseases.

**Clinical Professors**

J. FORD THOMPSON, M. D.,  
Clinical Professor of Surgery.

WILLIAM W. JOHNSTON, M. D.,  
Clinical Professor of Medicine.

GEORGE N. ACKER, M. D.,  
Clinical Professor of Medicine.

E. L. TOMPKINS, M. D.,  
Clinical Professor of Diseases of the Nervous System.

H. L. E. JOHNSON, M. D.,  
Clinical Professor of Diseases of Women.

SAMUEL S. ADAMS, M. D.,  
Clinical Professor of Diseases of Children.

WILLIAM K. BUTLER, M. D.,  
Clinical Professor of Diseases of the Eyes.

CHARLES W. RICHARDSON, M. D.,  
Clinical Professor of Laryngology and Otology.

**Demonstrators.**

G. N. ACKER, A. M., M. D.,  
Demonstrator of Pathological Histology.

WILLIAM P. CARR, M. D.,  
Demonstrator of Anatomy.

WILLIAM M. GRAY, M. D.,  
Demonstrator of Normal Histology.

VERANUS A. MOORE, B. S., M. D.,  
Assistant Demonstrator of Pathological Histology.

STERLING RUFFIN, M. D.,  
GLENDIE B. YOUNG, M. D.,  
LOUIS MACKALL, JR., M. D.,  
JOHN VAN RENSSELAER, M. D.,  
Assistant Demonstrators of Anatomy.

WILLIAM F. R. PHILLIPS, M. D.,  
THEODORE E. OERTEL, M. D.,  
Prosecutors of the Chair of Anatomy.

JOHN VAN RENSSELAER, M. D.,  
JOHN R. WELLINGTON, M. D.,  
Demonstrators of Minor Surgery.

JOHN R. WELLINGTON, M. D.,  
FRANK LEECH, M. D.,  
Clinical Assistants.

The building in which the Medical School holds its sessions, the munificent gift of the late WILLIAM W. CORCORAN, is situated on H street between Thirteenth and Fourteenth streets, only a few steps from the main University Building. It has recently been enlarged and renovated.

The School has a museum containing a valuable collection, and is provided with other appointments suitable for the purposes of medical, anatomical, and surgical study.

The plan of instruction comprises a complete course of scholastic lectures in the seven essential branches of medical science, viz., Anatomy, Physi-

ology, Materia Medica, Chemistry, Surgery, Obstetrics, and the Theory and Practice of Medicine; and, conjoined with this, ample opportunities are afforded for bedside instruction, by which the general principles taught in the lecture-room can be verified and practically illustrated in the various modes of examining patients, analyzing symptoms, and arriving at a correct diagnosis and prognosis of any case that may be presented. In like manner are taught the art of prescribing medicines and of observing their effects, the mode of performing surgical operations, etc.

In addition to full sets of diagrams to illustrate the subjects considered by the several Chairs, the School has provided a sciopticon or lantern, which enables the lecturer to give the class faithful and exact (photographic) views of both normal and pathological structures. Practical laboratory instruction will be given during the session in Normal and Pathological Histology and Chemistry. The laboratory is supplied with microscopes and with the necessary appliances for the study of these subjects.

The course in Normal Histology is open to students during the first and second years of their tuition, and the course in Pathological Histology to third-year students only. Both these courses constitute a necessary part of college work, and attendance upon them is not optional, but obligatory.

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### GENERAL SKETCH OF THE SEVERAL LECTURE COURSES.

#### Surgery.

PROFESSOR J. FORD THOMPSON, M. D.,

One of the Attending Surgeons to the Children's Hospital, to the Garfield General Hospital, and to the Columbia Hospital for Women.

The principles and practice of Surgery are taught from this Chair, both by didactic lectures and clinical instruction. Orthopedic Surgery and Diseases of the Genito-Urinary system are included in this course.

As Professor Thompson is the attending Surgeon of both the Children's Hospital and the Garfield Hospital, students are offered the opportunity for Clinical Instruction in these Institutions.

Effort is made to teach Surgery in accordance with the latest developments of scientific research. At the College operations will be performed upon the cadaver, and the use of all important surgical instruments and appliances will be demonstrated in the same manner. A collection of colored models of life size, illustrating Surgical Anatomy, forms a feature of the Surgical course.



**MINOR SURGERY.**—Practical class instruction will be given by Professor McARDLE and his Assistants in the application of splints, dressings, etc., for the various surgical diseases and injuries.

### **Theory and Practice of Medicine.**

**PROFESSOR W. W. JOHNSTON,**

One of the Consulting Physicians to the Children's Hospital, to the Gerfield Hospital, and to the General Dispensary and Emergency Hospital.

The Course of Lectures on the Theory and Practice of Medicine begins with the consideration of the pathological anatomy and symptomatology of the general morbid processes which occur in many diseases and to which all the structures of the body are liable. General or constitutional diseases and local diseases or diseases of organs are described in order.

As the subjects taught from the Chair are so numerous and cover so wide a field, two years are required to complete the course. The lectures of each year therefore form a distinct and complete series, and it is necessary for the student to follow attentively the lectures during two successive years in order to finish his studies in this branch.

The courses on Histology and Pathological Histology cannot be neglected without serious detriment to progress and are absolutely necessary to a complete understanding of the studies of this Chair.

The hospitals and dispensaries of the city afford abundant opportunity for the observation of disease, and no chance should be lost to gain a practical knowledge of the methods of examining cases and of the art of diagnosis. The student should also make an effort to study morbid anatomy by witnessing as many autopsies as is possible, for in this way only can he acquire definite and clear ideas of the appearance of morbid tissues.

### **Obstetrics and the Diseases of Women and Children.**

**PROFESSOR A. F. A. KING, A.M., M.D.,**

One of the Consulting Physicians to the Children's Hospital, and Obstetrician to the Columbia Hospital for Women.

This course will comprise a series of Lectures on the Science and Practice of Midwifery, together with additional Lectures on Gynecology. The main purpose of the Lecturer will be to explain, impress, and simplify the matters to be studied in the books, so as to render them more easily intelligible, and hence more pleasing and satisfactory to the student. With this view the lectures will be illustrated by diagrams, models, natural preparations, manikins, and instruments.

Mathien's new elastic manikin for demonstrating obstetrical operations has been added to the illustrative apparatus.

In the Department of Gynecology the various instruments and appliances required in treating the Diseases of Women will be exhibited and their uses fully explained.

### **Physiology.**

#### **PROFESSOR WILLIAM LEE, M.D.,**

One of the Attending Physicians to the Central Dispensary and Emergency Hospital.

This Course of Lectures consists of a full, clear, and practical exposition of Physiology, aided as far as possible by experiments, vivisections, and diagrams. The more fully to impress upon the memory of the student the important principles embraced in this valuable part of his curriculum, reviews will be held from time to time in the form of class examinations. The course will be confined strictly to Physiology, with a view to cover the whole ground occupied by this branch.

### **Materia Medica and Therapeutics.**

#### **PROFESSOR D. W. PRENTISS, A.M., M.D.,**

One of the Consulting Physicians to the Children's Hospital and to the Central Dispensary and Emergency Hospital.

In the course of instruction pertaining to this Chair especial prominence is given to the physiological action of medicines and their therapeutic uses.

The value of a knowledge of Pharmacy and of the Natural History and Chemical Relations of the Materia Medica is not overlooked, but time does not admit of their being considered in great detail in the lecture-room. They are, rather, proper subjects for recess study.

The art of prescribing will have a place in the consideration of individual drugs, particularly with reference to appropriate combinations, much of the success of the practitioner depending upon the practical application of his knowledge in the sick-room.

It will be the endeavor of Professor PRENTISS to make his instruction as practical as possible. The lectures will be supplemented by working prescriptions and blackboard illustrations, as occasion will admit.

From this Chair the student will be taught the use of the Metric System in Medicine.

### **Anatomy.**

#### **PROFESSOR D. KERFOOT SHUTE, A.B., M.D.,**

Ophthalmic Surgeon to the Washington Hospital for Blindness.

This course of Lectures is arranged with the view of rendering the didactic instruction in Anatomy as full and complete as the limits of the session will allow.

Sufficient knowledge of the anatomical structure of the human body to qualify one for the practice of medicine may be acquired during the two courses of lectures from this Chair, which each student attends, if at the same time he do his duty in the dissecting-room.

The Lectures will be illustrated by frequent reference to recent dissections and numerous drawings and diagrams. The sciopticon will also be employed constantly to present photographic views of many regions of the body.

Special attention will be given during the course to the Surgical and Medical Relations of human anatomy, which are of so great importance in the practice of the Medical Profession.

Public oral examinations are conducted by the lecturer from time to time.

DRS. WILLIAM F. R. PHILLIPS and THEODORE E. OERTEL, Prosecutors to the Chair of Anatomy, will prepare the subject for the lecturer.

DR. WILLIAM P. CARR, Demonstrator of Anatomy, and his assistants, DRs. RUFFIN, YOUNG, MACKALL, and VAN RENSSELAER, give their personal attention to the students in the dissecting-room.

**PRACTICAL ANATOMY.**—The dissecting-room of the College is large, thoroughly ventilated, well lighted, and furnished with every requisite for the convenience and comfort of the student. Anatomical material is abundantly supplied at a moderate price, sufficient to cover only the expense of procuring and preparing it. The room is open during both by day and at night until 11 p. m., or even later on some occasions. It is under the supervision of the Faculty and the immediate direction of the Demonstrator of Anatomy, who is present *at stated hours* to give personal attention to the students and properly instruct them in their dissections. In the absence of the Demonstrator one of his assistants will be present to instruct the classes.

### **Chemistry and Toxicology.**

PROFESSOR EMIL A. DE SCHWEINITZ, A. M., PH. D.,

Chemist in the United States Department of Agriculture.

The instruction in this Department embraces :

1st. A discussion of the elementary bodies, metallic and non-metallic, and their important compounds, the best methods of preparing them and detecting their presence.

This also includes a study of the principles of chemical philosophy, the general laws of chemical affinity and combinations.

2d. THE CHEMISTRY OF THE CARBON COMPOUNDS.—Organic chemistry will be considered with special reference to those substances most useful



to the physician—organic acids and their salts, alkaloids, etc. Stress is laid upon Toxicology, and the tests and antidotes for the various poisons are studied.

3d. Laboratory instruction is given in the Methods of Qualitative and Quantitative Analysis, with special reference to their application to medicine.

4th. Facilities for advanced work in Bio-Chemistry will be afforded.

#### Lectures on Special Subjects.

**DERMATOLOGY.**—Professor YARROW will give a course of lectures on this branch, illustrated by diagrams, models, and the exhibition of cases.

**PEDIATRICS.**—Professor HARRISON will lecture upon diseases of infants and children and the importance of their proper management by diet and hygiene.

**GYNECOLOGY.**—The diseases peculiar to women will receive special attention from Professor H. L. E. JOHNSON, in charge of the department of Gynecology, Central Dispensary and Emergency Hospital, who will illustrate this course by clinical demonstrations at the Hospital.

**MINOR SURGERY.**—This course will consist of practical instruction under the direction of Professor McARDLE, assistant physician, Children's Hospital, and his assistants. The students will apply the various splints, bandages, surgical dressings, etc., for themselves.

**BACTERIOLOGY AND HYGIENE.**—Bacteriology is of great scientific interest, dealing, as it does, with the etiology of many pathological processes.

The importance of hygienic conditions in the treatment and prevention of disease will be fully considered in this course. The purity of water, air, foods, etc., and the methods by which such purity is determined will receive particular attention. These subjects will be taught conjointly by Professor THEOBALD SMITH.

**OPHTHALMOLOGY.**—Professor BUTLER will give a didactic course on this subject, together with clinical instruction at the Lutheran Eye and Ear Infirmary.

**MEDICAL JURISPRUDENCE.**—Professor RUFFIN's course will deal with the relations of physicians to matters of legal investigation, and the students will be taught how expert testimony is given and how physicians should conduct themselves as witnesses.

**LARYNGOLOGY AND OTOTOLOGY.**—This course will comprise lectures on diseases of the nasal passages, pharynx and larynx, and also of the ear. Professor RICHARDSON, Laryngologist to the Providence Hospital, will give

practical instruction in the use of the laryngoscope and other instruments required in this special branch.

**MENTAL DISEASES.**—Professor PATTERSON, one of the resident physicians at the Government Hospital for the Insane, will deal with the subject of insanity in its varied forms. Clinical instruction will also be given at the hospital.

**HISTOLOGY AND PATHOLOGICAL HISTOLOGY.**—Practical laboratory instruction will be given on these subjects:

Dr. WM. M. GRAY, of the United States Army Medical Museum, will conduct a course of practical instruction in Normal Histology in connection with the Chair of Physiology. In this course students will have the opportunity to become familiar with the use of the microscope and with the minute anatomy of the tissues and organs of the body.

Dr. G. N. ACKER will give a course in Pathological Histology, in which will be shown the principal tissue alterations found in disease.

The course in Normal Histology is open to students during the first and second years of their tuition, and the course in Pathological Histology to third-year students only. Both these courses constitute a necessary part of college work, and attendance upon them is not optional with the student, but obligatory.

#### Clinical Instruction.

**GARFIELD HOSPITAL.**—Clinical lectures will be given regularly during the session by Professor J. FORD THOMPSON on Surgery and by Professor G. N. ACKER on Medicine. A great variety of medical and surgical diseases is to be seen in this institution, affording abundant material for clinical diagnosis and operative surgery.

**CHILDREN'S HOSPITAL.**—A weekly course of Medical and Surgical Clinics will be given by Professors W. W. JOHNSTON, J. FORD THOMPSON, and S. S. ADAMS. An opportunity is here afforded of observing all the diseases, injuries, etc., to which children are liable, whether treated medicinally or surgically. The dispensary service of the hospital is very large and instructive.

**CENTRAL DISPENSARY AND EMERGENCY HOSPITAL.**—Professors WILLIAM LEE, in charge of the department of general medicine and nervous diseases, and H. L. E. JOHNSON, in charge of the department of diseases of women, will conduct courses of instruction in their respective branches.

**PROVIDENCE HOSPITAL.**—Clinical instruction, both medical and surgical, is given by the staff of this institution.

**LUTHERAN EYE AND EAR INFIRMARY.**—The diseases of the eye and ear in this hospital will be exhibited during the clinics of Professor BUTLER.

### Requirements for Matriculation and Graduation.

I. Matriculants will be required to show that they are fitted, by previous education, for the study of medicine, and for this purpose they must either present a satisfactory certificate of their attainments from some college or submit to an examination, which will require an English composition in the handwriting of the applicant, of not less than two hundred words, and an examination in Higher Arithmetic, Algebra, Elementary Physics, and Latin Prose.

Students conditioned in one or more of the branches enumerated as requirements for Matriculation shall have time, until the beginning of the second year, to make up such deficiencies, provided, however, that students who fail in any of the required branches in this second examination shall not be admitted to a second course.

II. Candidates for the degree of Doctor of Medicine must have attended three \* courses of lectures, the subjects to be arranged as follows:

FIRST YEAR.—Anatomy, Physiology, Chemistry, Materia Medica, Practical Anatomy, and Histology. Minor Surgery, Bacteriology, and Hygiene.

SECOND YEAR.—Anatomy, Physiology, Chemistry, Materia Medica, Practice of Medicine, Surgery, Obstetrics, Gynecology, Laryngology, Otolaryngology, and Pediatrics. Clinics, Histology, Practical Anatomy.

THIRD YEAR.—Practice of Medicine, Surgery, Obstetrics, Ophthalmology, Dermatology, Mental Diseases, and Medical Jurisprudence. Clinics, Pathological Histology.

III. Students of other institutions who have attended one course of lectures in any regular medical school will be placed upon the same footing with those who have attended one course in this College; and those who have attended two courses of lectures in any other regular college or colleges will rank with those who have attended two courses in this Institution, and the same privileges as regards examination will be extended to them—that is to say, they will be admitted as third-course students after passing a satisfactory examination on the four primary branches of Anatomy, Physiology, Chemistry, and Materia Medica.

IV. Candidates for graduation must have studied medicine three years, or the term of three years' study must be completed at a date not exceeding three months after the period of the final examination. They must be of good moral character and at least twenty-one years of age.

V. The candidate must have practised dissection for at least two sessions, during each of which he shall be required to dissect two "parts."

\* It is most probable that the next issue of the Medical Announcement, for the session of 1893-94, will require four annual courses of lectures instead of three.



of a subject, and it is recommended that he dissect three parts. He must have attended also two courses of clinical instruction.

VI. One month before the close of the session he shall enter his name with the Dean of the Faculty as a candidate for graduation, and at the end of the term present himself for examination. The examination will be both written and oral. The examination for the Degree will be held at the end of the session, in April. Students who fail to pass the examination in April may be re-examined in October, if, in the judgment of the Faculty, they have shown the proficiency requisite to render such a course advisable. The diploma is granted only at the Annual Commencement, in May.

VII. Graduates of other accredited medical colleges must pass a satisfactory examination on all of the seven essential branches of medicine before receiving a diploma from this University.

#### Prizes.

At the end of the term a General Examination Prize of fifty dollars will be awarded. It will be given to the candidate for graduation who shall pass the best general examination.

The Faculty will also award two additional prizes, one for proficiency in "*Clinical Medicine*" and one for proficiency in "*Clinical Surgery*."

#### Fees, Regulations, etc.

Matriculation Fee, payable only once .....	\$5 00
Single Tickets.....	15 00
Practical Anatomy, by the Demonstrator.....	10 00
Examination Fee (not returnable, but payable once only), Primary Branches.....	20 00
Examination Fee (not returnable, but payable once only), Final Branches.....	10 00
No fee for Graduating Expenses.	

In conformity with the foregoing regulations the expense for each of the three courses is as follows:

FIRST COURSE:	
Matriculation Fee .....	\$5 00
Four Primary Tickets.....	60 00
Practical Anatomy, by the Demonstrator.....	10 00
Total .....	\$75 00

## SECOND COURSE:

Four Primary Tickets.....	\$40 00
Three Final Tickets.....	45 00
Practical Anatomy, by the Demonstrator.....	10 00
Examination Fee (Primary Branches) .....	20 00
Total.....	\$135 00

## THIRD COURSE:

Three Final Tickets.....	\$45 00
Examination Fee (Final Branches) .....	10 00
Total.....	\$55 00

No charge will be made to matriculants for the courses of practical instruction in the Laboratory on Normal and Pathological Histology *nor for Clinical Lectures.\** Payment of the fees is required in all cases, and tickets must be taken out at the commencement of the session, *unless special arrangement be made with the Dean to suit the convenience of the student.*

By virtue of a liberal endowment from the late Mr. W. W. CORCORAN, this College is enabled to offer six free Scholarships, which are under the supervision of the Columbian University. Applicants for the privileges of this endowment must produce a certificate from the authorities of the University that they have been fitted by previous education for the study of medicine. Applications should be addressed to the Dean and sent in not later than the end of September, accompanied with written evidence of pecuniary inability and certificates of moral character and industry. This is the only mode by which any deduction can be made from the regular fees, except as hereinafter stated.

Graduates of other accredited medical colleges after five years are required to matriculate only. Prior to the expiration of five years the fee for a general ticket is \$50.

The degrees are conferred by the authority of the Columbian University, incorporated by act of Congress of the United States of America.

The prices of board range from \$12 to \$30 per month, and rooms may be obtained for \$10 and upward per month, according to location, etc.

The College Building is situated opposite a Government reservation, at No. 1325 H street N. W., and is within half a square of three lines of street cars, going to every part of the city.

Students desiring further information are requested to address the Dean of the Faculty.

A. F. A. KING, M. D., DEAN.

1315 Massachusetts Avenue N. W., Washington, D. C.

Telephone, 885.

\*A nominal fee of \$5 is charged by some of the hospitals.

## Text Books and Works of Reference.

ANATOMY.—*Gray's Anatomy*,\* Quain's Anatomy, Descriptive and Surgical; Holden's Manual of Dissection.

PHYSIOLOGY.—*Landois*'s, Dalton's, or Flint's Physiology, Foster and Langley's Practical Physiology, Rutherford's Practical Histology.

CHEMISTRY.—Richter's, Attfield's, Bloxam's, or Fowne's Chemistry, Bowman's Medical Chemistry, Witthaus' Chemistry, and Remsen's Organic Chemistry.

MATERIA MEDICA.—*H. C. Wood's Therapeutics*, National Dispensary, Edes' Therapeutics.

SURGERY.—*Ashurst's*, Gross' System of Surgery, Erichsen's or Druitt's Surgery.

PRACTICE OF MEDICINE.—Loomis' Practice, Osler's Practice, Syst. of Medicine (Pepper), Da Costa's Medical Diagnosis.

OBSTETRICS.—*Playfair's*, Leishman's, or Lusk's Obstetrics, King's Manual, Thomas and Mundé on Diseases of Women, *J. Lewis Smith*, or W. H. Day, or Meigs and Pepper on Diseases of Children, and Skene on Diseases of the Female Bladder and Urethra.

PATHOLOGICAL ANATOMY AND HISTOLOGY.—Green's Pathology, Frey's or Stricker's Histology, Rindfleisch's Pathological Histology, Cornil and Ranvier, Ziegler's Pathological Anatomy, Delafield and Prudden's Pathological Anatomy.

*Gould's Medical Dictionary*, Thomas' Medical Dictionary.

## Students of Medicine.

Name.	Residence.
Ashby E. Bain,	Texas.
May D. Baker,	Kansas.
Frank A. Barbour,	District of Columbia.
Hugh W. Beatty, M. D.,	Kansas.
Walter K. Beatty,	District of Columbia.
John W. Bennett,	District of Columbia.
Louisa M. Blake,	New Jersey.
Fred. M. Bogan,	District of Columbia.
Archie W. Boswell,	District of Columbia.
Frank C. Boyle,	District of Columbia.
Fannie C. Brewer,	Maryland.

\*The works first named and in *italics* are preferred.



Name	Residence
Isaac W. Brewer,	New York.
Mary A. Brosius,	Pennsylvania.
William C. Buck,	New Hampshire.
Paul V. Bunn,	North Carolina.
Dewitt C. Chadwick,	Ohio.
James R. Church,	District of Columbia.
Edgar F. Conant,	Maine.
Martha E. Conklin,	New York.
Henry K. Craig,	Maine.
William G. Crouse,	Nebraska.
Alice S. Crush,	District of Columbia.
Ellen L. Cudlip,	District of Columbia.
John M. Cunningham,	Illinois.
George R. Carrier,	Maine.
John Dale,	Pennsylvania.
Robert A. Daniel,	District of Columbia.
Edward Y. Davidson,	Virginia.
William E. Davis,	Maryland.
Joseph C. Davison,	New Jersey.
Henry J. Decker,	New York.
William H. Dobson,	Pennsylvania.
Alonzo B. Eaton,	Massachusetts.
Middleton S. Elliott,	South Carolina.
Merton J. Emerson,	Illinois.
Rudolph H. Ezelorf,	Pennsylvania.
James M. Fairly,	Mississippi.
Warren Dexter Fales,	Illinois.
Fred. O. Fish, A. B.,	Maine.
Henry Z. Fish,	Kansas.
Gailliard S. Fitzsimons,	South Carolina.
W. Ashby Frankland,	Virginia.
Nathaniel E. Fugitt,	Maryland.
Orange C. Gilliland,	Illinois.
Mary E. Graves,	District of Columbia.
Thomas A. Griffin,	Virginia.
Alfred G. Grunwell,	Virginia.
John W. Guc,	Illinois.
Oscar J. Gwynn,	Colorado.
Francis R. Hagner,	District of Columbia.
James R. Hamilton,	Texas.
Bernard L. Hardin, B. S.,	Virginia.

Name.	Residence.
Ralph A. Harding,	District of Columbia.
Cornelius A. Harper,	Wisconsin.
Wallace C. Harry,	District of Columbia.
Henry M. Haynes,	Texas.
William E. Hertford,	District of Columbia.
John W. Higdon, Jr.,	District of Columbia.
John Kirkland Hill, A. B.,	North Carolina.
Almer M. Hoadley,	District of Columbia.
Abram B. Hooe,	Virginia.
Charles J. Hopkins,	District of Columbia.
Charles N. Howard,	Pennsylvania.
Deane C. Howard,	Massachusetts.
Harry W. Howell,	District of Columbia.
Montgomery Hunter,	Virginia.
Joseph E. Hurst,	Canada.
Virgil B. Jackson,	Virginia.
Joseph R. Johnson,	Virginia.
Lincoln Johnson,	New York.
Robert A. Johnson,	Illinois.
Sidney L. Johnson,	District of Columbia.
Fred. F. Jones,	Ohio.
James T. Jones,	District of Columbia.
Arthur Jordan, D. D. S.,	California.
Llewellyn Jordan,	Mississippi.
Ulysses S. G. Keller,	Pennsylvania.
Cassius M. Ketcham,	Missouri.
Carolyn I. Kiefe,	Massachusetts.
William A. Kinnan,	Michigan.
Frank A. Kirby,	Massachusetts.
Herbert D. Knapp,	Michigan.
Van Buren Knott,	Iowa.
Alice K. Koogle, B. S.,	Ohio.
Mary A. Law,	Kansas.
George W. Leadley,	New York.
Julius Lemkowitz,	Georgia.
Hanson T. A. Lemon,	District of Columbia.
Victor A. Lewis,	Maryland.
Zebulon Llowe,	Maryland.
David Lobo, M. D.,	Venezuela.
Matthew O'R. Loveaire,	District of Columbia.
Kate E. Lozier,	Connecticut.

Name.	Residence.
L. Fleet Lockett,	District of Columbia.
J. Julius Lund,	Illinois.
William E. Magruder.	Maryland.
William A. Martin,	Illinois.
William L. Masterson,	Ohio.
William W. Matthews,	Louisiana.
Sherman D. Maynard, B. S.,	New York.
Frank A. Mazzie,	District of Columbia.
Thomas J. McEttrick,	Massachusetts.
James S. McIlhenny,	District of Columbia.
George N. McLoughlin,	Tennessee.
Eaton K. McNeil,	Tennessee.
Homer S. Medford,	District of Columbia.
Harry S. Millstead,	Virginia.
Francis H. Miner,	New Hampshire.
John W. Morgan,	District of Columbia.
Edward Mower,	Connecticut.
Andrew J. Nelson,	Virginia.
Francis M. Nesmith,	New York.
William S. Newell,	Indiana.
Sofie A. Nordhoff,	Germany.
Josie Craig Parsons,	Illinois.
Herbert W. Porter,	Connecticut.
Margaret S. Potter,	Pennsylvania.
George T. Prewitt,	Texas.
Clarence G. Probert,	Ohio.
Alexander H. Quarles,	Georgia.
Tunis C. Quick,	Virginia.
David E. Quinn, Ph. G.,	Ohio.
Arthur C. Rauterburg,	District of Columbia.
Joseph O. Reed,	Massachusetts.
Delos N. Reeve,	Iowa.
Victor B. Rench,	Maryland.
Theodore W. Richards,	District of Columbia.
Edward E. Richardson,	Vermont.
John H. Rindlaub,	Wisconsin.
Harry W. Rollins,	District of Columbia.
John B. Sacasa,	Nicaragua.
William N. Sayre, LL.M.,	Oregon.
Edward G. Seibert,	Pennsylvania.
Henry H. Seltzer,	Pennsylvania.



Name.	Residence.
Thomas M. Shepherd,	District of Columbia.
Nellie H. Shipman,	Ohio.
Percy G. Smith, Ph. G.,	Maryland.
Homer L. Spaulding,	Kansas.
Lemuel J. Stanton,	Iowa.
Mary C. Stanton,	Iowa.
John Hamilton Stone, A. B.,	District of Columbia.
John Thompson,	District of Columbia.
J. Ford Thompson, Jr.,	District of Columbia.
William J. R. Thönssen, M. D.,	Texas.
Fred. S. Towle,	Massachusetts.
Herbert S. Town,	Wisconsin.
Robert S. Trimble,	Maryland.
James R. Tubman,	District of Columbia.
William A. Tyler,	Nebraska.
Denny S. Verdi,	District of Columbia.
Mays M. Warren, B. S., B. A.,	Tennessee.
William S. Washburn,	New York.
Richard Washington,	District of Columbia.
Gottlieb Wehrle, B. S.,	Wisconsin.
William O. Wetmore	District of Columbia.
Thomas A. Whittington,	Nebraska.
Henry C. Wire, M. D.,	Ohio.
Edwin P. Wolfe,	Iowa.
Walter M. Wooster,	District of Columbia.
Margaret M. York,	Louisiana.
Charles L. Young,	Pennsylvania.

Students of medicine. . . . . 161

## THE DENTAL SCHOOL.

### Faculty.

JAMES C. WELLING, LL. D.,  
President.

J. HALL LEWIS, D. D. S.,  
Professor of Dental Prosthetics.

HENRY C. THOMPSON, D. D. S.,  
Professor of Operative Dentistry.

EMIL A. DE SCHWEINITZ, A. M., PH. D.,  
Professor of Chemistry.

WILLIAM LEE, M. D.,  
Professor of Physiology.

W. D. PRENTISS, A. M., M. D.,  
Professor of Materia Medica and Therapeutics.

D. KERFOOT SHUTE, A. B., M. D.,  
Professor of Anatomy.

WILLIAM P. CARR, M. D.,  
Demonstrator of Anatomy.

J. R. HAGAN, D. D. S.,  
Demonstrator in Charge of Infirmary.

SIGEL ROUSH, A. M., M. D., D. D. S.,  
Assistant Demonstrator.

### Clinical Operators.

R. B. DONALDSON, D. D. S.

H. B. NOBLE, SR., D. D. S.

J. CURTIS SMITHE, D. D. S.

L. C. F. HUGO, D. D. S.

W. S. HARBAN, D. D. S.

WILLIAMS DONNALLY, D. D. S.

The regular Course of Lectures begins on October 1st and continues seven months.

The Faculty of the Dental Department of this University, convinced that less than three years of study and instruction is insufficient properly to prepare any one for the practice of Dentistry in its present state of advancement, announce that in order to become eligible for graduation the student must attend three full courses of seven months each, held in different years, with such exceptions as are hereinafter stated.

The subjects of the several courses are arranged as follows:

**FIRST YEAR.**—Anatomy, Physiology, Chemistry, and Materia Medica, together with Practical Anatomy, Histology, and such Infirmary work as is suitable for first-year students.

**SECOND YEAR.**—The subjects of the first year are continued, and to these are added Operative Dentistry and Prosthetic Dentistry, with more advanced Infirmary work.

At the end of the second year the student may be examined on Anatomy, Physiology, Chemistry, and Materia Medica.

**THIRD YEAR.**—This year is devoted exclusively to Operative and Prosthetic Dentistry. Examination on these branches at the end of the Term.

As, however, no amount of scientific attainment can compensate for lack of manipulative skill, a large part of the student's time is devoted to actual practice in the Infirmary, for which purpose the large and centrally located College building gives ample opportunities.

The operating room fronts on one of the Government reservations, and thus has a full, unobstructed light, so desirable in dental operations. It is furnished throughout with Morrison chairs and all necessary appliances that will enable a student to acquire the knowledge of office practice, as well as a diversity of Clinical experience.

A large, comfortable, and well-lighted dental laboratory is supplied with all the requirements for the successful practice of Prosthetic Dentistry, and lockers are available for the safe-keeping of instruments belonging to the students.

The extracting-room is separate from the others, and is fitted up for the proper administration of the various anesthetics, under the immediate supervision of a demonstrator thoroughly skilled in their application.

Special attention is called to the thoroughness of the practical instruction in the Infirmary, which is under the immediate supervision of Professor LEWIS. Dr. J. R. HAGAN, the Demonstrator in charge, is in constant attendance during the entire term, directing and overseeing the



operations of the students, who thus have the benefit of his many years experience in Dental Practice.

The Infirmary is open every week day for nine continuous months (being closed during the months of July, August, and September), during which time an abundance of Clinical material is readily available; in fact, fully as many patients present themselves as can possibly be attended to by the students.

The student has, therefore, the privilege of twenty-seven months' actual practice in the Infirmary, during which time he may become proficient in all those operations which the dental surgeon is ordinarily called upon to perform in office practice.

### GENERAL SKETCH OF THE SEVERAL LECTURE COURSES.

#### **Prosthetic Dentistry and Metallurgy.**

PROFESSOR J. HALL LEWIS, D. D. S.

In this Department the principles involved in the construction of artificial substitutes will be exhaustively considered, and the lectures supplemented by practical demonstrations of the subjects mentioned.

In addition to the more commonly used vegetable bases for artificial teeth, the use of Gold, Silver, and Platinum will be thoroughly taught, and Bridge-work, the construction of appliances for correcting Oral Irregularities, Interdental Splints for Fractures, etc., will be carefully considered.

The modes of preparation, properties, etc., of the Metals and Alloys of particular interest to the Dentist will receive special attention.

Professor LEWIS will endeavor to make his instruction thoroughly practical, and to prepare the student for the actual, every-day practice of Prosthetic Dentistry.

#### **Operative Dentistry, Dental Anatomy, and Pathology.**

PROFESSOR HENRY C. THOMPSON, D. D. S.

This Course embraces Lectures on the Special Anatomy and Physiology of the Teeth. The origin, growth, and eruption of the teeth receive minute attention, and will be illustrated as their importance demands.

The methods of treating, filling, and extracting teeth will not only receive attention in the lecture-room, but be demonstrated clinically by gentlemen whose reputations are fully established as most proficient operators. Dental Pathology and Therapeutics will receive extended consideration from this Chair.

**Physiology.****PROFESSOR WILLIAM LEE, M. D.**

This Course of Lectures will consist of a full, clear, and practical exposition of Physiology, aided as far as possible by experiments, vivisections, and diagrams. The more fully to impress upon the memory of the student the important principles embraced in this valuable part of his curriculum, reviews will be held from time to time in the form of class examinations. The course will be confined strictly to Physiology, with a view to cover fully the whole ground occupied by this branch. Due attention will be paid by this Chair to the study, with the microscope, of Normal Histology.

**Materia Medica and Therapeutics.****PROFESSOR D. W. PRENTISS, A. M., M. D.**

In the course of instruction pertaining to this Chair especial prominence will be given to the physiological action of medicines and their therapeutic uses.

It will be the endeavor of Professor PRENTISS to make his instruction as practical as possible. The lectures will be supplemented by working prescriptions and black-board illustrations, as occasion will admit.

From this Chair the student will be taught the use of the Metric System in Medicine.

**Anatomy.****PROFESSOR D. KERFOOT SHUTE, A. B., M. D.**

This Course of Lectures is arranged with the view of rendering the didactic instruction in Anatomy as full and complete as the limits of the session will allow.

The Lectures will be illustrated by frequent reference to recent dissections and numerous drawings and diagrams. The sciopticon will also be employed constantly to present photographic views of many regions of the body.

Public oral examinations are conducted by the Lecturer from time to time.

Drs. WILLIAM F. R. PHILLIPS and THEODORE E. OERTEL, Prosectors to the Chair of Anatomy, will prepare the subject for the Lecturer.

Dr. WILLIAM P. CARR, Demonstrator of Anatomy, and his assistants, Drs. RUFFIN, YOUNG, MACRAE, and VAN RENSSLAER, give their personal attention to the students in the dissecting-room.

### Practical Anatomy.

The Dissecting-room of this College is large, thoroughly ventilated, well lighted, and furnished with every requisite for the convenience and comfort of the student. Anatomical material is abundantly supplied at a moderate price, only sufficient to cover the expense of procuring and preparing it. The room is open both during the day and at night until 11 p. m., or even later on some occasions. It is under the supervision of the Faculty and the immediate direction of the Demonstrator of Anatomy, who, with his assistants, is present at stated hours to give his personal attention to the students and properly instruct his classes in their dissections.

### Chemistry.

PROFESSOR EMIL A. DE SCHWEINITZ, A. M., PH. D.

The instruction in this Department embraces:

1. A discussion of the elementary bodies, both metallic and non-metallic; their compounds and the best methods of preparing them; their properties and reactions, and the means of detecting their presence. Special stress will be laid upon those elements and their compounds that are of importance to dental Surgery.
2. The Course also includes a study of the principles of Chemical Philosophy, the laws of chemical combinations, and of chemical affinity in general.
3. Facilities for practical laboratory work will be provided. The principles of the science are abundantly illustrated by experiments.

### Clinical Operations.

One evening in each week a member of the Corps of Clinical Operators will lecture upon some subject of general interest in Dentistry, and upon the following Saturday, whenever admissible, will give in the Infirmary a practical demonstration of the subject mentioned.

Special attention is called to the fact that the members of the Clinical Corps take an active part in the College instruction, each member giving several Lectures on special subjects during the Winter Course, besides holding Clinics at the Infirmary.

### Requirements for Matriculation and Graduation.

1. *Matriculants* will be required to show, either by examination or by the exhibit of a diploma or certificate from some reputable literary institution, that they have received a good English education.



2. *Candidates for Graduation* must have attended three full Courses of Lectures, each of SEVEN \* months' duration, and three courses of Clinical instruction in this institution during the regular winter term and in separate years.

*Graduates from foreign Medical Schools* (other than those in Canada) will have the same privileges as are accorded second-year students in this College, with the additional provision that they will be given a reexamination on the four primary branches on beginning said second year. Should this examination be satisfactory, no further study of the primary branches will be required; but should the examination not be satisfactory, the applicant must study all branches under the same conditions as defined for second-year students of this College.

Students, however, who have attended *one* full course in some reputable Dental or Medical College will be admitted with the same privileges and be subject to the same requirements as are prescribed for our own second-year students.

Graduates in Medicine from reputable Medical Schools in the United States and Canada and Medical students who have passed their examination on the four primary branches of Anatomy, Chemistry, Physiology, and Materia Medica in any of said Medical Schools need not be reexamined on these primary branches on entering this College.

Before becoming eligible for graduation they must take two full courses upon Operative and Prosthetic Dentistry and follow the requirements prescribed for our second-year students.

The candidate must be examined upon all subjects taught in this School, with exceptions noted above, and before the examination he must *perform operations upon the natural organs in the Infirmary* and present a well-constructed specimen of Dental mechanism *made by himself in the Dental Laboratory of the University*, which shall be afterwards deposited in the College Museum.

In addition to the above requirements, the moral character and habits of the candidate, his industry and diligent attendance, will be taken into consideration. Notable negligence, immorality, and habitual absence from the lectures will, it is distinctly understood, preclude the candidate from attaining his degree, even though he may have acquired sufficient technical knowledge to pass a creditable examination. The reservation on the part of the Faculty of the right to make good moral character a prerequisite for graduation must not be overlooked.

\* This rule applies only to those who matriculated after March, 1892.

**Fees, Regulations, etc.**

Matriculation (payable once only) .....	\$5 00
Full course of Lectures on all Branches .....	90 00
Demonstrator of Anatomy .....	10 00
Single Tickets .....	15 00
Examination Fee (not returnable, but payable once only), Primary Branches .....	20 00
Examination Fee (not returnable, but payable once only), Final Branches .....	10 00

No fee for Graduating Expenses.

In conformity with the foregoing regulations, the expenses for each of the three courses are as follows:

**FIRST COURSE:**

Matriculation .....	\$5 00
Four Primary Tickets .....	60 00
Demonstrator of Anatomy (obligatory) .....	10 00
Total .....	\$75 00

**SECOND COURSE:**

Four Primary Tickets .....	\$60 00
Two Final Tickets .....	30 00
Demonstrator of Anatomy (optional), \$10.00.	
Examination Fee, Primary Branches .....	20 00
Total .....	\$110 00

**THIRD COURSE:**

Two Final Tickets .....	\$30 00
Examination Fee, Final Branches .....	10 00
Total .....	\$40 00

Graduates of other recognized Dental Colleges will be admitted on paying the matriculation fee and *fifty* dollars.

No charge will be made to matriculants for the courses of practical instruction in the Laboratory, on Physiology and Histology, nor for Clinical Lectures.

Payment of the fees is required in all cases, and tickets must be taken out at the commencement of the session, unless special arrangement be made with the Dean to suit the convenience of the student.

The degrees are conferred by the authority of the Columbian University, incorporated by act of Congress of the United States of America.

Students may matriculate at any time during the nine months' Infirmary Course, and thus begin Infirmary Practice at once, on condition that they pay \$25, which amount will be credited to them as part payment of their regular fees.

*Graduates* of this School may be admitted as third-year students in the Medical Department after passing the *medical* examination in Anatomy, Physiology, Chemistry, Materia Medica, and Therapeutics. After two years' additional study on Surgery, Practice, and Obstetrics, they will be admitted to the final examination for the Medical degree.

*Candidates* for graduation in the Dental School who desire to obtain a medical degree thereafter may be admitted to the *medical* examination on the four primary branches at the termination of their second dental course, *provided* they give written notice to the Dean of their intention so to do *one month* before the time of the March examinations, and *provided* also that they have complied with the requirements of the Medical Department as regards dissection and study of Histology.

The prices of board and all other personal expenses are as reasonable in Washington as in other large cities of the Union. Students requiring further information are requested to communicate with the Dean of the Faculty.

A. F. A. KING, M. D., DEAN,

1445 Massachusetts Avenue N. W., Washington, D. C.

Telephone call, 885.

#### Text Books and Works of Reference.

ANATOMY.—*Gray's Anatomy*,\* *Quain's Anatomy*, Descriptive and Surgical; *Holden's Manual of Dissection*.

PHYSIOLOGY.—*Landois'*, *Dalton's*, or *Flint's Physiology*; *Foster and Langley's Practical Physiology*; *Rutherford's Practical Histology*.

CHEMISTRY.—*Mitchell's Dental Chemistry*, *Barker's* or *Fowne's Chemistry*.

MATERIA MEDICA.—*H. C. Wood's Therapeutics*; *National Dispensatory*; *Edes' Therapeutics*.

PROSTHETIC DENTISTRY.—*Richardson's Mechanical Dentistry*; *Essig's Dental Metallurgy*.

\* The works first named and in *italics* are preferred.



OPERATIVE DENTISTRY.—*Harris' Principles of Practice*; *Tomes' Dental Anatomy and Surgery*; *Taft's Operative Dentistry*; *Garretson's Oral Surgery*; *American System of Dentistry*—*Litch*. *Gould's Medical Dictionary*.

### Students of Dentistry.

Name	Residence.
Hugh M. Adams,	Pennsylvania.
Charles W. Appler,	Maryland.
Frank A. Austin.	District of Columbia.
Charles H. Beatty,	District of Columbia.
Harry E. Belcher,	New York.
William T. Burch,	District of Columbia.
George W. Clavoe,	District of Columbia.
William N. Cogan,	District of Columbia.
Joseph Cohen.	Texas.
Arthur B. Cooper,	District of Columbia.
John L. Curtis,	New York.
Henry A. Dunn,	District of Columbia.
John H. Galloway,	Iowa.
William S. Gustin.	Ohio.
Robert E. L. Hackney,	District of Columbia.
William Hislop,	Canada.
Hubert L. King,	District of Columbia.
Henry Knowles,	Georgia.
Eugene L. Le Merle,	District of Columbia.
Charles H. L. Lemon,	District of Columbia.
Walter A. Low,	Virginia.
William A. Lyon,	Kansas.
Herbert MacNamee,	New York.
John H. Madert, D. D. S.,	District of Columbia.
Stephen C. Miller, M. D.,	Minnesota.
James W. Montgomery,	Kentucky.
Harry B. Moore,	District of Columbia.
Robert L. Nall,	Kentucky.
Hiram P. Nelson,	New York.
Wesley C. Orr,	District of Columbia.
Philip Otterback,	District of Columbia.
Frederick W. Parker,	New York.
Harry Parsons,	New York.
Warren Parsons,	California.
Will K. Petty,	District of Columbia.
N. Willis Pomeroy,	District of Columbia.

Name.	Residence.
Charles S. Rice, M. D.,	Pennsylvania.
Louis S. Sandoz,	Louisiana.
Carl E. Smith,	Virginia.
T. Guy Songster,	District of Columbia.
James R. Stewart,	Virginia.
Charles V. Stiles,	District of Columbia.
Wines E. Thornton,	Vermont.
William H. Trail,	Maryland.
Ernest Varela,	California.
Israel J. Warfield,	Maryland.

Students of Dentistry, 46.

## THE COLUMBIAN COLLEGE.

### The Faculty.

JAMES C. WELLING, LL.D., PRESIDENT,  
Professor of Political and Historical Philosophy.

THE REV. ADONIRAM J. HUNTINGTON, D.D.,  
Professor of the Greek Language and Literature.

THE REV. SAMUEL M. SHUTE, D.D.,  
Professor of the English Language and Literature, and of Anglo-Saxon.

ANDREW P. MONTAGUE, A.M., PH.D.,  
Professor of the Latin Language and Literature.

J. HOWARD GORE, B.S., PH.D.,  
Professor of Mathematics, and of the German Language and Literature.

HOWARD L. HODGKINS, A.M., PH.D.,  
Professor of Physics, and Adjunct Professor of Mathematics.

LEE D. LODGE, A.M., PH.D.,  
Professor of the French Language and Literature.

THE REV. J. MACBRIDE STERRETT, D.D.,  
Professor of Intellectual and Moral Philosophy.

CHARLES E. MUNROE, S.B.,  
Professor of Chemistry.

H. CARRINGTON BOLTON, PH.D.,  
Non-resident Lecturer on the History of Chemistry.

J. S. LEMON, PH.D.,  
Lecturer on Physiological Psychology.

CYRUS ADLER, PH.D.,  
Lecturer on Oriental History.



## COLUMBIAN UNIVERSITY.

ANTONIO M. SOTELDO,  
Professor of Spanish.

E. HILTON JACKSON, A. B., LL. B.,  
Assistant in Latin.

H. R. PYNE,  
Assistant in Greek.

H. GRANT HODGKINS, A. B.,  
Registrar and Librarian.

The College is open to students of both sexes.

The regular course of instruction is comprised in nine schools, as follows:

- I. SCHOOL OF ENGLISH: including English Philology, English Literature, Rhetoric, Logic, Elocution, General History, and Anglo-Saxon.
- II. SCHOOL OF GREEK: including the Greek language and Literature and the History of Greece.
- III. SCHOOL OF LATIN: including the Latin Language and Literature and the History of Rome.
- IV. SCHOOL OF FRENCH: including the French Language and Literature and the History of France.
- V. SCHOOL OF GERMAN: including the German Language and Literature and the History of Germany.
- VI. SCHOOL OF MATHEMATICS: including Pure Mathematics, Mechanics, and Astronomy.
- VII. SCHOOL OF CHEMISTRY.
- VIII. SCHOOL OF PHYSICS.
- IX. SCHOOL OF PHILOSOPHY.

**School of English.**

**PROFESSOR SHUTE.**

1. Instruction is given in the fundamental principles of style and invention, mainly in their rhetorical, and incidentally in their logical aspects. Instruction is given in elocution and composition; also in the general outlines of English and American History. Three hours a week.

Text-books: Genung's Rhetoric; Thompson's History of England; Eliot's History of the United States.

2. Instruction is given in the principles of pure and applied logic, and application of these principles is required in analyzing and reconstructing ordinary forms of argumentation in select authors. Instruction is also given as to the origin, development, and present powers of the language; also in the biography, times, and works of the best English writers. Three hours a week.

Text-books: Jevons' Logic; Hudson's Shakespeare; Shaw's English Literature; Sweet's Anglo-Saxon Primer and Beowulf.

3. Fowler's Inductive Logic; Hunt's Prose and Prose Writers; American Literature. Four hours a week.

4. Elocution and Essays throughout the Course; Modern History; Criticisms of American Literature. Two hours a week.

A certificate of proficiency is granted on completing Courses 1, 2, and 3; a diploma for Courses 1-4, inclusive.

For Graduate Courses in English, see under head of "Graduate School."

#### School of Greek.

PROFESSOR HUNTINGTON.

MR. H. R. PYNE

In this School instruction is given in the Greek Language and Literature and in Greek History. The following books are used for texts or reference: Goodwin's and Hadley's Greek Grammars, Boise's Exercises in Greek Syntax, and Smith's History of Greece.

Lectures are given to the higher classes on Greek Literature.

Frequent exercises are assigned to the classes in rendering into Greek English translations from Greek authors.

Liddell and Scott's Greek Lexicon, Kuhner's Greek Grammar, Goodwin's Greek Moods and Tenses, Findlay's, or Long's, or Ginn & Co.'s Classical Atlas, Smith's Greek and Roman Antiquities, and Grote's or Curtius's History of Greece are recommended to students in all cases.

1. Homer's Iliad and Odyssey; Herodotus; History of Greece. Three hours a week.

2. Xenophon's Memorabilia; Lucian. Three hours a week for one term.

3. Isocrates. Three hours a week for one term.

4. Sophocles, Euripides, Demosthenes, Lysias, and Thucydides. Three hours a week.

5. Plato and Thucydides, or Æschylus. One hour a week.

A certificate of proficiency is granted on completing courses 1 and 2; a diploma for courses 1 to 5, inclusive.

For Graduate Courses in Greek, see under head of "Graduate School."

## School of Latin.

PROFESSOR MONTAGUE.

MR. E. H. JACKSON, A. B., LL. B.

In this School instruction is given in the Latin Language and Literature and in Roman History. The School offers nine courses, of which 1 and 2 are required for a certificate, and 1, 2, 3, 4, and 5 (or 6) for a diploma in Latin. Courses 7, 8, and 9 constitute the Graduate Department, in which those parts of the works of the authors named which are not usually read by undergraduates are assigned. In all the courses the study of the Latin Grammar, the writing of exercises, original and selected, and sight reading are required.

Grammars: Harkness's (text-book), Allen and Greenough's, Peters's, and Madvig's. Lexicons: Harper's, White's English-Latin. Roman Literature: Cruttwell's, Wilkins's. Classical Atlas: Ginn & Co.'s or Kiepert's. Histories: Merivale's, Liddell's, Allen's, Myers's. In all the courses except 1, selections from the Latin authors for private reading and examination are prescribed and the study of Roman Literature is pursued.

Courses: 1. Ovid, Livy, Horace (*Odes*), the History of Rome; three times a week for nine months. 2. Horace (*Satires* and *Epistles*), Cicero (*De Senectute* and *De Amicitia*), Plautus (*Captivi*); three times a week for four and a half months. 3. Cicero (*Letters*), Tacitus (*Germania*), Terence (*Andria*), Roman Antiquities; three hours a week for four and a half months. 4. Tacitus (*Agricola* and *Annals I.*), Pliny (*Letters*), Seneca, Juvenal, Critical Study of the History of Rome; three hours a week for nine months. 5. Quintilian, Latin Inscriptions (Allen); one hour a week for six months. 6. Cicero (*De Finibus*), Social Life of the Romans; one hour a week for five months.

For Graduate Courses in Latin, see under head of "Graduate School."

## School of French.

PROFESSOR LODGE.

1. The class is drilled in French pronunciation; grammar; progressive exercises in composition; conversation.

Works read: *Histoire d'un Conscrit*; *Le Voyage de M. Perrichon*; *Un Mariage d'Amour*; Edgren's French Grammar is used. Three hours a week.

2. French syntax critically studied; Dictation Exercises; Short Original Essays; French Conversation.

Works read: *Petite Histoire du Peuple Français*, Lacombe; *Le Cid*; *Athalie*; *L'Avare*; Parallel readings in *Corinne*; Sauveur's *Grammaire Française*. Three hours a week.



3. French Idioms studied : Lectures on the development of the tongue ; Comparative Philology.

Works read : Bug-Jargal ; Le Bourgeois Gentilhomme ; Horace ; Cinna ; La Poudre aux Yeux ; La Bataille de Dames ; Parallel reading in nineteenth century authors. Three hours a week.

4. Philological studies based on original texts ; thorough investigation in the origin of the laws of French syntax : Ruy Blas, Hernani, and Crane's Romantisme Français are also read. Two hours a week.

5. Lectures on the history of French Literature : systematic study by the class of one or more epochs ; the authors read vary with the epochs chosen for study. Two hours a week.

A certificate of proficiency is granted on completing courses 1 and 2 ; a diploma for courses 1, 2, 3, 4 or 1, 2, 3, 5.

For Graduate Courses in French, see under head of " Graduate School."

#### School of German.

##### PROFESSOR GORE.

Instruction in this department has, as its primary object, a thorough knowledge of the Grammar and familiarity with the literature, with such practice in conversation as shall serve as a stimulus in the furtherance of this object.

German Grammar is studied during the first three years of the course, with its principles illustrated from the class readings and written exercises.

Text books : Sheldon's and Joynes-Meissner's German Grammars.

1. Readings from Bilderbuch ohne Bilder, Andersen ; Das Kalte Herz, Hauff. Two hours a week.

2. Readings from Der Neffe als Onkel, Schiller ; Hoher als die Kirche, and selected stories. Two hours a week.

3. Readings from Lessing, Auerbach, Heyse, and Freytag. Two hours a week.

4. Elective seminary studies ; Gore's German Science Reader, and extensive reading at sight. Two hours a week.

A certificate is granted on the completion of the four courses.

#### School of Mathematics.

##### PROFESSORS GORE AND HODGKINS.

In this School instruction is offered in seven courses :

1. Solid Geometry ; Wells' Geometry. Four hours a week for one term.

2. Algebra ; Bowser's and Wells' Algebras. Four hours a week for one term.

3. Plane and Spherical Trigonometry, Wells'. Three hours a week for one term.

4. Analytic Geometry, Wentworth. Three hours a week for one term.

5. Differential and Integral Calculus, Taylor. Three hours a week.

6. Mechanics, Peck; Least Squares, Merriman. Two hours a week.

7. Astronomy, Young's General Astronomy. Two hours a week.

A certificate of proficiency is granted on completing courses 1, 2, 3; a diploma for courses 1, 2, 3, 4, 5, 7, or 1 to 6, inclusive.

For Graduate Courses in Mathematics, see under head of "Graduate School."

#### School of Chemistry.

##### PROFESSOR MUNROE; PROFESSOR BOLTON.

1. For students who have taken Mathematics 1 and 2 and Physics 1. General Inorganic and Organic Chemistry. Three hours per week for one year.

Text-books: Barker's Elementary Chemistry; Remsen's Organic Chemistry.

2. For students who have taken course 1. Laboratory Practice. Three periods per week for one year.

Text-book: Cooke's Laboratory Practice.

3. For students who have shown marked aptitude in course 2, Qualitative and Quantitative Analysis and Chemical Preparations.

Text-books: Clowe's Qualitative Analysis; Thorpe's Quantitative Chemical Analysis.

A certificate of proficiency is granted on completing course 1, and a diploma for courses 1 and 2.

For Graduate Courses in Chemistry, see under head of "Graduate School."

H. CARRINGTON BOLTON, Ph. D.,

Non-resident Lecturer on the History of Chemistry.

Professor H. CARRINGTON BOLTON, Ph.D., gives from time to time a course of lectures on the History of Chemistry. The course for the present year comprised nine lectures on the topics indicated:

I, Chemical Arts in Bible Times; II, Theoretical Views in Ancient Times; III, The Folly and the Wisdom of Alchemy; IV, The Growth and Decline of Alchemy; V, Paracelsus and the Iatro-chemists; VI, The Era of Phlogiston; VII, The Development of Pneumatic Chemistry; VIII, Lavoisier and the Reformation of Chemistry; IX, The Era of Quantitative Chemistry.

The course was illustrated by diagrams and 250 lantern-slides representing portraits, apparatus, title pages of rare books, interiors of ancient

and modern laboratories, etc. The subject was treated from the stand-points of philosophy and of practical chemistry, and the treatment was interspersed with biographies, personal narratives, the description of processes, and with references to contemporary progress in physical science and secular history.

The next course will be philosophical as well as historical, and will revolve around the burning points of chemical research at the present day.

These Lectures are open to all students of the University, to members of the Chemical Society of Washington, and to invited guests.

### School of Physics.

#### PROFESSOR HODGKINS.

During the session of 1893-'94 three courses will be given, of which course 1 will be required for a certificate and courses 1, 2, and 3 for a diploma.

1. A lecture course on general physics, embracing the fundamental principles of mechanics, sound, heat, light, and electricity. The lectures will be illustrated by experiments and will be based on Avery's Elements of Natural Philosophy, Barker's Physics (Advanced Course), and Gianot's Physics.

For admission to this class courses 1 and 2 in Mathematics will be required and the simultaneous study of course 3 in Mathematics will be necessary. A knowledge of the elements of Physics as contained in Avery's First Principles of Natural Philosophy or in Gage's Introduction to Physical Science is desirable, but will not be insisted on during the next session.

2. A course in Laboratory Physics. This course is designed both to familiarize the student with the ordinary methods of exact experimentation and to extend the knowledge of the principles of Physics as gained in course one. Lectures on physical theories and on laboratory methods will be given from time to time. Topics for study and discussion will be assigned to the whole class, and to different members of the class will be assigned subjects upon which they will prepare special reports.

For admission to this class courses 1, 2, and 3 in Mathematics and course 1 in Physics will be required.

3. A lecture and laboratory course in Magnetism and Electricity, following, with some modifications, the course given in Poyser's Magnetism and Electricity (Advanced course).

For admission to this class courses 1, 2, and 3 in Mathematics and courses 1 and 2 in Physics will be required. In exceptional cases students who have not completed course 2 in Physics may be admitted to this class.



**School of Philosophy.****PROFESSOR STERRETT.**

The special studies in this School as directed by Professor STERRETT are pursued in the upper two classes. The Junior Class spends the first half of the year in the study of Psychology, the aim being to make this work a preparation for an intelligent study of Ethics and Philosophy. A careful study is made of the phenomena of intellect, feeling, and will, as organic processes of the man developing into conscious universal relations. In the absence of more formal instruction in Experimental Psychology, a course of lectures on Psycho-physics will be given this year by Prof. J. S. LEMON, Ph.D., of the Clark University.

This class spends the last half of the year on the History of Philosophy. The course this year is on Modern Philosophy, from Descartes to Herbert Spencer and E. von Hartmann. It is given in a course of lectures—concurrent readings and theses being required from the students.

The Senior Class spends the first half of the year (5 hours a week) in the study of the chief ethical theories. The members of the class are required to study the text of Aristotle, Hobbs, Kant, Mill, and Spencer, and to hand in well prepared abstracts of their systems. The class-room work is devoted to a critical exposition of these and other theories by means of lectures and discussions. This is followed by a constructive theory of ethics. Green's *Prolegomena to Ethics*, Dewey's *Outlines of Ethics*, and Muirhead's *Elements of Ethics* are put into the hands of the students for use.

The latter part of the year is given to the study of *Political Economy*, chiefly on historical and ethical lines. Here E. de Laveleye and Roscher are used as text-books.

An opportunity is given the students for *Seminary* work in either Ethics or Philosophy, two hours a week in the afternoon.

For Graduate Courses in Philosophy, see under head of "Graduate School."

**School of Philosophy.****PRESIDENT WELLING AND DOCTOR ADLER.**

The President of the University is charged with the work of instruction in Political and Historical Philosophy. After a course of lectures on the origin and historical significance of the Constitutional Law of the United States, he places Fiske's *Civil Government* in the hands of the student for careful study. After a course of lectures on the genetic ideas of International Law and its place in juristic evolution, he assigns Gallaudet's *Manual* for study.

The President also delivers a course of lectures on the Science of History, considered in its sources, methods of study, its principles of criticism as differently applied to unwritten and written records, and the successive stages of human progress measured along the lines of useful arts and of social institutions. These lectures begin with anthropological studies on primitive society, and are followed by a rapid survey of the "civilizing stream" in its passage from Egypt through Assyria, Judea, Phœnicia, Persia, Greece, Rome, and Latin Christendom, down to the discovery of America.

CYRUS ADLER, Ph. D.,

Of the Smithsonian Institution.

Dr. CYRUS ADLER delivers a course of lectures on the Assyro-Babylonian Empire, comprising: I. A Sketch of its History (four lectures). II. Excavation of the Assyro-Babylonian Monuments (two lectures). III. Decipherment of the Cuneiform Inscriptions (one lecture). IV. The Cuneiform Inscriptions and the Old Testament (two lectures). V. Art and Architecture of the Assyro-Babylonians (one lecture). VI. Their Literature (two lectures). VII. Their jurisprudence (one lecture).

These lectures are open to all students of the University and to invited guests.

For Graduate Courses in Political and Historical Philosophy, see under head of "Graduate School."

#### Time and Terms of Admission.

The regular examinations for admission to the College are held on the Friday and Saturday immediately preceding the opening of the session. Every applicant is required to deliver to the President testimonials of good moral character, and, if coming from another college, must present a certificate of honorable dismissal.

Candidates for admission to any class of the College must, unless they are graduates of the Preparatory School or of the High Schools of Washington, sustain an examination in the following elementary studies: Spelling, English Grammar, Geography, Elements of History, and Arithmetic.

Candidates for admission to any School will be examined in all the studies presupposed by the curriculum of that School.

Candidates for admission to the School of English will be admitted to its lowest class on passing a satisfactory examination on the preliminary studies above indicated.

Candidates for admission to the School of Greek in its lowest class will be examined in Goodwin's or Hadley's Greek Grammar, Goodwin's Greek

Reader or Xenophon's *Anabasis* (first four books), first three books of Homer's *Iliad*, Jones' Greek Prose Composition, and Myers's or Schmitz's *History of Greece*.

Candidates for admission to the School of Latin will be examined in Harkness's *Latin Grammar*, four books of *Cæsar's Commentaries*, six of *Cicero's Orations*, six books of the *Æneid* of Virgil, *Sallust's Conspiracy of Catiline* (in part), *Latin Composition*, and Allen's, Myers's, or Pennell's *History of Rome*.

Candidates for admission to the School of French will be examined in Edgren's *French Grammar* and in the first hundred pages of *Super's French Reader*.

Candidates for admission to the School of Mathematics in its lowest class will be examined in *Algebra* (through Quadratic Equations) and in the first four books of *Geometry*.

Candidates for admission to the School of Physics will be required to pass the examination for admission to the Sophomore Class in *Mathematics*.

Real equivalents in quality and amount will be received in place of the books or parts of the books prescribed as above for study preparatory to admission into the Schools of Greek, Latin, and Mathematics.

Candidates for admission to any advanced class in any School will be examined in all the previous studies of the class which they propose to enter.

Students wishing to pursue a select course in certain Schools will be admitted to the classes for which they may be found qualified; but an examination in preliminary and indispensable studies will be held in all cases, and every student pursuing such a course, if under the age of twenty-one years, is required to embrace in his selections not less than three distinct schools, with at least twelve recitations or lectures per week. The choice of studies embraced in a Select Course must be made immediately upon the commencement of a term, and no student will have leave to make a new choice of studies during any single term.

#### Degrees.

The degree of Bachelor of Arts is conferred on students who obtain diplomas in four Schools and certificates in four other Schools; provided the diplomas include those from the Schools of English, Greek or Latin, and Philosophy, and the certificates include those from the Schools of Latin or Greek, French or German, and Mathematics.

The degree of Bachelor of Science is conferred on students who obtain diplomas in four Schools and certificates in four other Schools; provided the diplomas be those from the Schools of Mathematics, Philosophy,



French or German, and Chemistry or Physics, and the certificates include those from the Schools of English and Physics or Chemistry.

A diploma is the equivalent of two certificates, and may be so counted in enumerating the certificates required for a degree.

Courses of graduate study leading respectively to the degrees of Master of Arts and of Doctor of Philosophy are described under the head of the "Graduate School" in this catalogue.

#### Examination.

At the end of each term an examination of all the classes in all the Schools is publicly held in all the studies of that term.

The results of each Term Examination are combined with those of the daily recitations and attendance of the student during the term, in order to ascertain his academic standing at the end of that term.

Each recitation and each examination are graded on a scale of merit from 0 to 100, and a failure to reach the final average grade of 75 in any study is regarded as a failure in that study.

At the close of each College year all the classes in all the Schools are publicly examined in review of all the studies of that year.

The results of the Annual Examinations are combined with those of the Term Examinations, in order to ascertain the student's academic standing at the end of each year.

A student who fails to pass a satisfactory examination in any study at the end of a College term must present himself for re-examination in that study, and, in default of doing so, shall forfeit promotion with his class in that department.

All examinations which occur at the end of a College year are conducted in writing. Examinations for the degree of Bachelor of Arts are concluded six weeks anterior to the date of the Annual Commencement, that time may be given to Professors for the inspection of written examination papers, and to students for the preparation of parts to be performed on Commencement Day by the successful candidates for the degrees of Bachelor and Master of Arts, to whom public parts on that day may be assigned by the Faculty.

Examinations for prizes and for the degree of Master of Arts are concluded five weeks before the end of each scholastic year.

#### Annual Prizes.

Besides the honors and degrees conferred in the regular course, prizes are annually offered as the reward of special excellence in particular branches of study.

The Davis Prizes, for excellence in Elocution, founded by the Hon.

Isaac Davis, LL. D., of Massachusetts, consist of two gold medals, and are annually awarded to the two successful competitors, in a public contest held on Commencement Day. These prizes are awarded by a committee whom the Faculty selects for this purpose, and are publicly delivered at the close of the contest.

The Staughton Prize, for excellence in the Latin Language and Literature, and the Elton Prize, for excellence in the Greek Language and Literature, founded by the Rev. Romeo Elton, D. D., of Exeter, England, consist of two gold medals, annually awarded to the best scholar and writer in each of these languages.

The Ruggles Prizes, for excellence in Mathematics, founded by Professor William Ruggles, LL. D., consist of two gold medals, annually awarded to the best two scholars in the Pure and Applied Mathematics.

Any student entitled to a diploma in any school will be allowed to contend for the prize given in that department, provided he shall have pursued the required number of studies during the year, and shall have passed satisfactory examinations in the same.

#### Prizes in 1891-'92.

Staughton Prize, Susan Florence Shipman, District of Columbia.

Elton Prize, Susan Florence Shipman, District of Columbia.

Ruggles Prize, Nina D. Bradley, District of Columbia.

Davis Prize, *First*—L. Murphree Roper, South Carolina.

Davis Prize, *Second*—W. R. Blackford, District of Columbia.

The Enosinian Prize, for Excellence in Debate, was awarded by the Society to Bailey K. Ashford, District of Columbia.

The Prize for Parliamentary Law, given by Professor GORE, was awarded to John H. Stone, District of Columbia.

#### ORDERS OF THE COLLEGE YEAR.

##### Terms and Vacations.

The College year, embracing nine months, is divided into two terms. The first term begins on the third Monday in September and continues to the first of February. The second term begins on the first of February and ends on the day of the Annual Commencement, which is held on the second Wednesday in June.

A vacation of eight days is given at Christmas, beginning on that holy day and lasting until the next day after New Year's.

The 22d of February is observed as a College holiday.

A recess is given from Good Friday to Easter Monday, inclusive.

**Annual Commencement.**

The Annual Commencement of the College is held on the second Wednesday in June.

Public parts are assigned on Commencement Day to such students only as have passed a satisfactory examination for the degrees of Bachelor of Arts or of Science, except as before indicated, in the case of those who may be contestants for the prize of Elocution.

A Latin Salutatory will be awarded to the graduate in each year whose average standing in all the Schools is the highest, and an English Salutatory to the student who stands second.

The Valedictory is awarded with special regard to the qualifications of the student as a Valedictorian, as well as on the ground of scholarship.

Philosophical, Classical, Scientific, Metaphysical, Ethical, Historical, or Literary Orations may be awarded to students who are eminent respectively in the corresponding Departments.

All the degrees of the College are publicly conferred on Commencement Day.

Diplomas in the several schools and prizes for special excellence in any Department are publicly delivered on the same day.

**Public Worship.**

Prayers, accompanied by the reading of the Scriptures, are offered daily in the College Chapel. All students are expected to attend this service.

**Library Hours.**

The College Library, to which large additions were made during the last year, is open every day from 9 o'clock a. m. to 1 o'clock p. m., and from 6 to 10 p. m., for purposes of study and inquiry, as also for the distribution of books. A reading-room, provided with the leading reviews, periodicals, newspapers, etc., is maintained in connection with the Library for the use of students.

The Libraries of Congress and of the various Departments of the Federal Government are accessible to students for purposes of research in any special line of studies.

**Literary Society.**

The Enosinian Society, a literary association formed by the students of the College, meets weekly in its hall for the purpose of improvement in Debate and Composition.

**Lectures.**

Courses of Lectures in Literature, Art, and Science (comprising Lectures in English, French, and German) are organized every year by the Faculty.



These Lectures are open to all the classes, and to the public on application being made for a ticket of admission. Lectures on Science, under the auspices of the Scientific Societies of Washington, whether delivered in the Lecture Hall of the United States National Museum or in the Lecture Hall of the University, are equally open to all students of the University.

#### General Orders.

Every student on entering the College is understood by that act to pledge a voluntary acquiescence in the rules and regulations prescribed by the Board of Trustees and Overseers, and by the Faculty acting under the authority of the Board.

A report of the student's standing in all his studies, including a record of all absences from lectures, recitations, or other public exercises of the College, will be rendered quarterly to parents or guardians.

The daily recitations of the College Classes are brought, as far as practicable, into the early portion of the day. The advantages of an attendance upon the debates of Congress and upon lectures before various associations are offered to students of the higher classes without detriment to proficiency in their studies.

#### College Expenses.

1. Admission Fee (paid but once, on entrance).....	\$10 00
2. Tuition for the year in three or more Schools .....	90 00
3. Tuition for the year in two Schools.....	70 00
4. Tuition for the year in one School.....	50 00
5. Laboratory work in Chemistry, 2 and 3 (material) each.....	10 00

These charges cover all expenses, including public fuel, servants' wages, etc.

Bills are payable semi-annually, in advance.

The College provides no commons, but board may be procured in the city at such reasonable rates that the annual expenses of students need not exceed the sum of three hundred dollars. Eligible boarding-houses are indicated on the bulletin boards of the University.

#### Scholarships.

The Kendall Scholarship, founded by the late Hon. Amos Kendall and running for six years, two in the Preparatory School and four in the College, is annually conferred on the best scholar in the public High School. Students on this foundation pay semi-annually in advance a fee of eight dollars for public fuel, servants' wages, etc.

## STUDENTS IN THE COLUMBIAN COLLEGE.

## Abbreviations.

A. C.—Analytical Chemistry.	G.—Greek.
ANTH.—Anthropology.	L.—Latin.
ARCH. DR.—Architectural Drawing.	M.—Mathematics.
As.—Assaying.	Mech. DR.—Mechanical Drawing.
AST.—Astronomy.	MET.—Meteorology.
B.—Botany.	MIN.—Mineralogy.
Bp.—Blowpipe.	N. S.—Natural Science.
C.—Chemistry.	PHIL.—Philosophy.
C. E.—Civil Engineering.	P.—Physiology.
E.—English.	PHYS.—Physics.
F.—French.	PSY.—Psychology.
GEOL.—Geology.	TOP. DR.—Topographical Drawing.
GER.—German.	Z.—Zoölogy.

## Candidates for Degrees.

Name.	Residence.
Raymond M. Alden,	District of Columbia.
Harry B. Arnes,	District of Columbia.
Andrew Y. Bradley,	District of Columbia.
Margaret H. Brewer,	Indian Territory.
Edna A. Clark,	New Hampshire.
Charles G. Cogley,	District of Columbia.
Lucy E. Cogley,	District of Columbia.
William W. Comstock,	Connecticut.
Clara A. Crew,	Ohio.
George R. Davis,	Maine.
Juliet M. Duvall,	District of Columbia.
George L. Edmunds,	District of Columbia.
Mary V. Fenwick,	District of Columbia.
J. Herbert Ford,	District of Columbia.
S. Carroll Ford,	District of Columbia.
Winthrop D. Green,	Massachusetts.
William W. Grier,	District of Columbia.
H. May Johnson,	District of Columbia.
Robert H. King,	New York.
Carrie E. Logan,	New York.
Samuel K. McGinnis,	North Dakota.
Hester E. McNelly,	District of Columbia.
Addie E. Maguire,	District of Columbia.
Sarah E. Mason,	District of Columbia.
Henrietta C. Morrison,	District of Columbia.
Annie L. Pierce,	District of Columbia.

Name.	Residence
Edward A. Playter,	District of Columbia.
Henry A. Polkinhorn,	District of Columbia.
D. Webster Prentiss, Jr.,	District of Columbia.
Elliott C. Prentiss,	District of Columbia.
Spencer B. Prentiss,	District of Columbia.
Mary C. Priest,	District of Columbia.
Henry R. Pyne,	Maine.
Harry D. Sanders,	New York.
A. Monell Sayre,	New York.
J. Macbride Sterrett, Jr.,	District of Columbia.
H. Worthington Talbott,	Maryland.
Morven Thompson,	District of Columbia.
F. Estelle Throckmorton,	District of Columbia.
Arthur L. Wilson,	West Virginia.
Elinor Wilson,	District of Columbia.

Candidates for Degrees. . . . . 41

#### Special Students.

Gilbert Bloss, D. C.,	E., Ger., F., C., Phys.
M. A. Connors, D. C.,	Greek.
Mary O. Dean, D. C.,	E., Ger., F., C., Phil.
Howard G. England, Md.,	E., M., C.
Gilbert N. Foxwell, Md.,	E., G., L., Ger., M., Phil.
Sarah D. Gadsden, S. C.,	Ger., M.
J. Holdsworth Gordon, Jr., D. C.,	E., Ger., M., Phys., C.
George R. Greenleaf, D. C.,	E., Ger., F., M., Phys.
Mortimer B. Hall, Md.,	E., Ger., F., M., Phys., C.
N. Monroe Hopkins, D. C.,	E., M., Phys.
Edward D. Johnson, D. C.,	E., G., Ger., Phil.
B. A., Maryland Agricultural College, 1892.	
Frederick C. Jones, D. C.,	E., F., M., C.
William M. Kemball, D. C.,	F., M., C.
Salvador D. Moore, D. C.,	E., M., C.
Jessie L. Nelson, Montana,	E., L., F., M.
Stanley Olmsted, D. C.,	L., Ger., F., M.
Thornton J. Parker, D. C.,	Ger., F., Phys., C., Ast.
G. Frieland Peter, D. C.,	E., Ger., F., M., C.
Florence E. Plant, D. C.,	Ger., M., C.
Nella B. Shute, D. C.,	E., F., Phil.
Robert C. Wilkins, Ohio,	E., Ger., F., M., C.

Special Students, . . . . . 21



## THE CORCORAN SCIENTIFIC SCHOOL.

### The Faculty.

JAMES C. WELLING, LL. D.,  
President.

CHARLES E. MUNROE, S. B.,  
Professor of Chemistry and Dean of the Faculty.

THE REV. SAMUEL M. SHUTE, D. D.,  
Professor of the English Language and Literature.

ANDREW P. MONTAGUE, A. M., PH. D.,  
Professor of Latin.

J. HOWARD GORE, B. S., PH. D.,  
Professor of Geodesy.

HOWARD L. HODGKINS, A. M., PH. D.,  
Professor of Mathematics.

WILLIAM S. YEATES, A. M.,  
Professor of Mineralogy and Geology.

LEE D. LODGE, A. M., PH. D.,  
Professor of French and Philosophy.

WILLIAM C. WINLOCK, A. B.,  
Professor of Astronomy.

FRANCIS R. FAVA, JR., C. E.,  
Professor of Civil Engineering.

F. H. KNOWLTON, M. S.,  
Professor of Botany.

THEODORE N. GILL, M. D., PH. D.,  
Professor of Zoology.

## COLUMBIAN UNIVERSITY.

OTIS T. MASON, A. M., PH. D.,  
Lecturer on Anthropology.

CLEVELAND ABBE, PH. D., LL. D.,  
Professor of Meteorology.

HERMANN SCHÖNFELD, PH. D.,  
Professor of the German Language.

HARRY KING, LL. B.,  
Emeritus Professor of Drawing.

EXUM PERCY LEWIS, B. S.,  
Instructor in Physics.

A. W. GREELY, BRIG. GEN. U. S. A.,  
Professor of Geography.

JOSIAH PIERCE, JR., M. A.,  
Professor of Drawing and Applied Geometry.

H. CARRINGTON BOLTON, A. M., PH. D.,  
Lecturer on History of Chemistry.

A. F. CRAVEN, A. B., LL. B.,  
Assistant Professor of Economics.

CHARLES W. STILES, A. M., PH. D.,  
Instructor in Histology.

H. A. BUMSTEAD, A. B.,  
Assistant in Physics.

G. E. CURTIS, M. A.,  
Assistant in Meteorology.

T. M. CHATARD, S. B., PH. D.,  
Lecturer on Chemical Engineering.

CABELL WHITEHEAD, B. M.,  
Assistant in Assaying.

FRANK L. AVERILL, C. E.,  
Assistant in Engineering Field-work.

EDWIN E. HARRIS, A. B.,  
Assistant in Chemistry.

FELIX FREYHOLD, C. E.,  
Assistant in Iron and Steel Construction.

HENRY R. PYNE,  
Assistant in Latin.

M. M. RAMSEY,  
Assistant in Spanish.

HERBERT L. RICE,  
Assistant in Astronomy.

E. L. THURSTON,  
Assistant in Engineering.

GEORGE V. CHANDLER,  
Assistant in Mineralogy and Geology.

J. S. JOHNSON,  
Assistant in Applied Mathematics.

B. A. WOLFF, A. B.,  
Assistant in Physics.

W. DE LANCY GILL,  
Assistant in Freehand Drawing.

VICTOR MINDELEFF,  
Assistant in Modelling.

LOUIS AMATEIS,  
Assistant in Architectural Drawing.

EDWIN H. FOWLER, B. S.,  
Assistant in Topographic Drawing.

The School of Science established by the Trustees and Overseers of the  
Columbian University as a part of their University system of education  
is called by the name of W. W. CORCORAN in grateful recollection of his  
many benefactions to the University.



The exercises of the School begin on the third of October and are held in the New University Building (southeast corner of Fifteenth and H streets N. W.), which has been constructed with special reference to the wants of the School.

Properly qualified persons of either sex are admitted as students in the Full Courses of study leading to the degree of Bachelor of Science, as described below, or they may take Special Courses in any of the Departments.

### COURSES OF STUDY LEADING TO THE DEGREE OF B. S.

#### FIRST YEAR.

(Common to all Courses.)

Chemistry, 1 and 6.*	French, 1.
Drawing, 1, 2 and 3.	German, 1.
English, 1.	Mathematics, 1 and 2.

#### COURSE I—GENERAL.

##### SECOND YEAR.

Applied Mathematics, 1 and 2, and Exercises.	Geology, 1.
Chemistry, 6.	German, 2.
Engineering, 1.	Mathematics, 3 and 4.
English, 2.	Mineralogy, 1.
French, 2.	Physics, 1.
	Philosophy, 1.

##### THIRD YEAR.

Applied Mathematics, 5 and 8.	Geology, 2 and 3.
Chemistry, 6.	German, 3.
English, 3.	Mathematics, 5.
French, 3.	Physics, 4.
	Philosophy, 2 and 3.

##### FOURTH YEAR.

Applied Mathematics, 6 and 9.	Chemistry, 2 and 6.
Astronomy, 1.	Mathematics, 6.
	Physics, 6.

\*The numbers following the subjects for study refer to the Courses in the various Departments of the Corcoran Scientific School.

**COURSE II—IN CIVIL ENGINEERING.****SECOND YEAR.**

Applied Mathematics, 1 and 2, and Constructive Exercises.	Geology, 1.
Drawing, 3 and 6.	German, 2.
Engineering, 1 and 2, 24 and 21, Con- structive Exercises and Field- work.	Mathematics, 3 and 4.
	Mineralogy, 1 and 4.
	Physics, 1.
	(Mechanical Laboratory.)

**THIRD YEAR.**

Applied Mathematics, 5, 8, 10, and 11, and Constructive Exercises.	Engineering, 5, 6, 7, 8, 9, 19, 20, and Constructive Exercises and Field- work.
Astronomy, 1.	Mathematics, 5.
Geology, 2.	

**FOURTH YEAR.**

Applied Mathematics, 6, 7, 9, 12, and 13.	Chemistry, 6.
Engineering, 11, 12, 14, 15, 16, 19, and 20, and Constructive Exer- cises.	Geodesy, 1 (1 term).
	Mathematics, 6.
	Physics, 4 and 6.

**COURSE III—IN ELECTRICAL ENGINEERING.****SECOND YEAR.**

Applied Mathematics, 1, and Con- structive Exercises.	Geology, 1.
Chemistry, 6.	German, 2.
Drawing, 3.	Mathematics, 3 and 4.
Engineering, 21, and Constructive Exercises.	Mineralogy, 1.
	Physics, 1.
	(Mechanical Laboratory.)

**THIRD YEAR.**

Applied Mathematics, 5, 8, 12, and 13.	Geology, 2.
Engineering, 22, 23, and Construct- ive Exercises.	Mathematics, 5.
	Physics, 2, 3, 7, and 9.

**FOURTH YEAR.**

Applied Mathematics, 6, 7, and 9.	Mathematics, 6.
Engineering, 18, 28, and Construct- ive Exercises.	Physics, 4, 5, 6, and 8.

**COURSE IV—IN CHEMISTRY (A).**

## SECOND YEAR.

Geology, 1.  
German, 2.

Physics, 1.  
Mineralogy, 1.  
Chemistry, 2 and 6.

## THIRD YEAR.

German, 3.

Geology, 2.  
Chemistry, 3 and 6.

## FOURTH YEAR.

Chemistry, 4, 5, 6, and 7.

**COURSE V—IN CHEMISTRY (B).**

## SECOND YEAR.

German, 2.  
Physics, 1.

Mineralogy, 1.  
Mathematics, 3 and 4.  
Chemistry, 2 and 6.

## THIRD YEAR.

German, 3.  
Mathematics, 5.

Physics, 2 and 3.  
Chemistry, 3 and 6.

## FOURTH YEAR.

Mathematics, 6.

Physics, 6.  
Chemistry, 4, 6, and 7.

**COURSE VI—IN METEOROLOGY.**

## SECOND YEAR.

Applied Mathematics, 1 and 2, and Constructive Exercises.	Engineering, 1 and 2. Geology, 1.
Astronomy, 1.	German, 2.
Chemistry, 2 and 6.	Mathematics, 3 and 4.
Drawing, 2 and 6.	Mineralogy, 1.

Physics, 1.



## THIRD YEAR.

Applied Mathematics, 5 and 6.	Mathematics, 5.
Geology, 2 and 3.	Meteorology, 1, and Practice.
German, 3.	Physics, 5, 6, and 7.

## FOURTH YEAR.

Applied Mathematics, 8 and 9.	Mathematics, 6.
Astronomy, 2.	Meteorology, 2, and Practice.
Geodesy, 1.	Physics, 6 and 8.

## COURSE VII—IN GEOGRAPHY.

## SECOND YEAR.

Applied Mathematics, 1 and 2.	Geology, 1.
Chemistry, 2.	Mathematics, 3 and 4.
Drawing, 2 and 4.	Mineralogy, 1.
Engineering, 1 and 2.	Mechanical Laboratory.
French or German, 2.	Physical Geography.
	Physics, 1.

## THIRD YEAR.

Applied Mathematics, 3, 5, and 8.	French or German, 3.
Astronomy, 1.	Geology, 1 and 3.
Drawing, 3 and 6.	Mathematics, 5.
Engineering, 5, 6, 7, 8 and 10.	Modelling.
	Physics, 2 and 5.

## FOURTH YEAR.

Applied Mathematics, 6, 7, and 9.	Mathematics, 6.
Astronomy, 2.	Meteorology, 2.
Engineering, 10, 15, and 16.	Plate Engraving.
Geodesy, 1.	Methods of Reproduction.
	Telegraphy and Signaling.

## COURSE VIII—IN GEOLOGY.

## SECOND YEAR.

Chemistry, 2.	Geology, 1.
Drawing, 2, 3 and 6.	Mathematics, 3 and 4.
Engineering, 1 and 2.	Mineralogy, 1.
French or German, 2.	Physics, 1.

## THIRD YEAR.

Biology.	Geology, 2 and 3.
Chemistry, 3.	Mineralogy, 2.
Engineering, 5 and 6.	Physics, 7.
	Zoology.

## FOURTH YEAR.

Botany, 1 and 3.	Geology, 4.
Chemistry, 5.	Geological Field-work and Maps.
Engineering, 10.	Meteorology, 2.
	Mineralogy, 4.

## DEPARTMENTS OF INSTRUCTION.

## Department of Anthropology.

DR. MASON, Lecturer.

(See under head of "Graduate School.")

## Department of Applied Mathematics.

(See Department of Engineering.)

## Department of Architecture.

(See Department of Engineering.)

The studies in this Department are pursued at present under the Department of Engineering (see page 79). They cover the Construction Branch of the course and the first two years of the Architectural Art Branch. Further studies necessary to complete the course will be provided when required.

## Department of Astronomy.

PROFESSOR WINLOCK, Head of Department.

MR. RICE, Assistant.

1. General Descriptive Astronomy. Three hours per week for one year.  
Young's General Astronomy.

For Graduate Studies in Astronomy, see under head of "Graduate School."

**Department of Botany**

PROFESSOR KNOWLTON, Head of Department.

## 1. Structural and Systematic Botany.

Text-books: Gray's Structural Botany; Gray's Manual; Ward's Flora of Washington.

## 2. Histological and Physiological Botany.

Text-books: Goodale's Physiological Botany; Arthur, Barnes, and Coulter, Plant Dissection.

## 3. Vegetable Paleontology: (a) Historical; (b) Biological; (c) Geological.

Text-books: Zettell's Handbuch der Palaeontologie, Lectures, etc.

**Department of Chemistry.**

PROFESSOR MUNROE, Head of Department.

Dr. BOLTON, Lecturer on History and Philosophy of Chemistry.

Dr. CHATARD, Lecturer on Chemical Engineering.

Mr. WHITEHEAD, Assistant in Assaying and Metallurgy.

——, Assistant in Quantitative Analysis.

——, Assistant in Qualitative Analysis.

Mr. HARRIS, Assistant in General Chemistry.

## 1. General Chemistry, Theoretical, Inorganic, Organic, and Technical.

Three hours per week for one year.

Text-books: Barker's, Remsen's, and Bloxam's Chemistries. Reference books: Ditte's Leçons sur les métaux, Roscoe and Schorlemmer's Treatise, Watts' Dictionary, Richter's Chemistry.

## 2. Chemical Practice and Qualitative Analysis. Twelve hours per week for one year.

Text-books: Clowe's and Fresenius' Qualitative Analysis.

## 3. Quantitative Analysis. Fifteen hours per week for one year.

Text-books: Fresenius' and Thorpe's Quantitative Analysis. Reference books: Crooke's Select Methods, Sutton's Volumetric Analysis, Smith's Electro-Chemical Analysis.

## 4. Technical Analyses and Industrial Processes. Twelve hours per week for one year.

Reference books: Hempel's Gas Analysis, Phillips' Engineering Chemistry, Allen's Organic Analysis, Wagner's Chemical Technology.

## 5. Assaying and Metallurgy of the Precious Metals. Twelve hours per week for three months.

Reference books: Brown's Manual of Assaying, Ricketts' Assaying.

## 6. History and Philosophy of Chemistry.

## 7. Chemistry of the Carbon Compounds. Twelve hours per week for five months.



Text-books: Cohen's Practical Organic Chemistry. Reference books: Allen's Organic Analysis, Richter's Organic Chemistry.

SPECIAL COURSES.

8. Modern methods of iron and steel analysis.

Text-book: Blair's Chemical Analysis of Iron.

9. Chemistry of Explosive substances.

Text-book: Munroe's Chemistry and Explosives.

For Graduate Studies in Chemistry, see under head of "Graduate School."

**Department of Drawing and Applied Geometry.**

PROFESSOR PIERCE, Head of Department.

PROF. KING, Lecturer on Mechanical Drawing.

MR. GILL, Assistant in Freehand Drawing.

MR. MINDELEFF, Assistant in Modelling.

MR. AMATEIS, Assistant in Architectural Drawing.

MR. FOWLER, Assistant in Topographic Drawing.

The Department of Drawing at the Columbia University has been re-organized to provide instruction in all branches of practical and applied geometry and for the special instruction and training of superior draughtsmen.

The course of instruction will include all branches of drawing and special work practised in the departments of the Government and in the offices of architects and engineers, having been designed to meet the needs of those who are seeking advancement and employment but who have not had the opportunity to study the principles and elements of geometry and mathematics, as well as for the training of engineering and scientific students.

1. Practice of Projections and Applied Geometry.

2. Freehand Drawing.

3. Modelling.

4. Mechanical Drawing.

5. Architectural Drawing.

6. Topographic Drawing.

Each of these courses will occupy two hours per week, and will be supplemented by practice.

Students seeking certificates of proficiency as draughtsmen will be expected to acquire a knowledge of elementary geometry, trigonometry, and algebra.

The connection between these branches of mathematics will be illustrated by graphic methods.

The elements of Cartesian or coördinate geometry will be taught by object lessons in projection and by the development of lines and surfaces from their equations. Linkages and mechanical movements will form an important branch of this subject. The elements of conic sections and modern geometry will be taught by perspective and orthographic, isometric, and perspective projections by linkages.

Students will be taught to construct the models and diagrams necessary for their advanced instruction, and will first study outline, light and shade, and expression by freehand drawing from the models constructed and from plaster casts.

Accuracy will be taught by carefully prepared drawings from working models and problems in projection.

Rapidity of execution and delicacy of touch can be acquired only by continual practice, but will be essential in the competition for prizes.

Scientific and engineering students will be taught graphic methods of analysis and records of observations, the interpolation of curves and development of surfaces, the preparation of working and finished drawings.

#### Department of Economics.

ASSISTANT PROFESSOR CRAVEN, Head of Department.

1. Theory of Accounts and the Elementary Principles of Finance. Lectures and practical exercises. Two hours per week for one year.
2. The History of Economics: the rise and development of schools of political economy; the growth of industries; and of economic legislation. Two hours per week for one year.
3. The Science of Political Economy: the social aspect of economics. One hour per week for one year.
4. The History and Development of Banking, with a critical investigation of the methods now in vogue at New York, London, Paris, and Berlin. Twelve lectures.

#### Department of Engineering and Applied Mathematics.

PROFESSOR FAVA, Head of Department.

MR. AVERILL, Assistant in Engineering Field-work.

——, Assistant in Machine Construction.

MR. FREYHOLD, Assistant in Iron and Steel Construction.

——, Assistant in Building Construction.

MR. THURSTON, Assistant in Engineering.

MR. JOHNSON, Assistant in Applied Mathematics.

All courses hereunder last one term. The number of hours after each course signifies "hours per week." Constructive Exercises are carried on largely outside of the regular recitation hours.

## APPLIED MATHEMATICS.

1 and 2. Descriptive Geometry, parts I and II, and Geometry of Position, 2 hours each, and Constructive Exercises, 6 hours. Reference: Warren, Church, Fiedler, Reye, etc.

3. Perspective and Shadows, 1 hour, and Exercises, 2 hours.

4. Stereotomy, 1 hour, and Exercises, 2 hours. Reference: Warren, Adhémar, etc.

5 and 6. Analytical and Applied Mechanics, parts I and II. Reference: Weisbach, Ritter, and Rankine.

7. Hydrodynamics, Hydraulics, and Pneumatics, 1 hour.

8 and 9. Strength of Materials and Theory of Elasticity, parts I and II, 2 hours each. Reference: Same as 5 and 6, and Bresse, Collignon, etc.

10 and 11. Graphical Statics, parts I and II, 1 hour each, and Designing Exercises, 2 hours. Reference: Culmann, W. Ritter, Du Bois, Koechlin, etc.

12 and 13. Mechanics of Machinery, 1 hour each. Reference: Rankine, Reuleaux, etc.

14 and 15. Mechanics of Construction for Architects, parts I and II, 1 hour each.

For Graduate Courses in Applied Mathematics, see under head of "Graduate School."

## CIVIL ENGINEERING.

1 and 2. Land Surveying and Theory of Instruments, parts I and II, 2 hours each, and Practical Exercises and Field-work in the Spring.

3. Use of Surveying Instruments, for Architects, Mechanical and Electrical Engineers, 6 meetings in the Field.

4. The History of Surveying, 1 hour.

5 and 6. Topographical Surveying, parts I and II, 2 hours each, and Field Practice.

7. Railroad and Highway Engineering, 1 hour, and Constructive Exercises, 10 hours.

8. Hydraulic Engineering (Canals, Rivers, and Harbors, Irrigation and Drainage), 1 hour, and Constructive Exercises, 10 hours.

9. Engineering Field-work and Railroad Surveying, 16 meetings.

10. Hydrographic Surveying and Exercises, 1 hour.

11. Masonry and Wooden Structures, 1 hour, and Constructive Exercises, 15 hours.

12. Iron and Steel Structures, 1 hour, and Constructive Exercises, 15 hours.

13. Engineering Plant, 1 hour, and Sketching Practice.

14. Materials of Engineering and Metallurgy of Iron and Steel, 1 hour.



15 and 16. Water Supply, Sewerage, and Sanitary Engineering, 1 hour each.

17. City Engineering, 1 hour.

18. Municipal Engineering (Street Railroads and Lighting), for Mechanical and Electrical Engineers, 1 hour.

19. Discussion of Engineering Topics, weekly.

20. Inspection of actual work, fortnightly.

For Graduate Courses in Civil Engineering, see under head of "Graduate School."

#### MECHANICAL ENGINEERING.

21. Construction of Machinery, part I (the Elements of Machines, etc.), 1 hour, and Constructive Exercises, 6 hours.

Reference: Unwin, Reuleaux, etc.

22 and 23. Construction of Machines, parts II and III, 1 hour each, and Constructive Exercises, 10 hours.

#### ARCHITECTURE AND CONSTRUCTION.

24. Building Construction, part I, 1 hour, and Constructive Exercises, 15 hours. Reference: Rivingtons, I and II; Burrell: Tutthill.

25 and 26. Building Construction, parts II and III, 2 hours each, and Constructive Exercises, 10 hours.

27. Modern Tall Buildings, and the use of iron in buildings, 1 hour.

28. Construction of Plants and Buildings, for Mechanical and Electrical Engineers, 1 hour, and Constructive Exercises, 3 hours.

29. The Theory of the Planning of Buildings, 1 hour.

30. Heating and Ventilation, 1 hour.

31. Sanitary Engineering, for Architects, 1 hour.

32. The Five Orders of Architecture, 1 hour.

33. The Renaissance in Architecture, 1 hour.

#### Department of Geodesy.

PROFESSOR GORE, Head of Department.

1. As supplementary to the course in Engineering, instruction is offered in Geodesy, embracing base-line measurement, adjustment of triangulation, computation of geodetic coördinates, and a discussion of the figure of the earth.

Text-book: Gore's Elements of Geodesy, 2d edition.

**Department of Geography.**

PROFESSOR GREELY, Head of Department.

———, Assistant.

———, Assistant.

Course to be announced later.

**Department of German.**

PROFESSORS GORE AND SCHÖNFELD.

1. Accurate training in elementary grammar; exercises in conversation, with readings from *Bilderbuch ohne Bilder*, *Das Kalte Herz*, and *Imnensee*. Two hours a week.

2. More extended course in German syntax; translations into German; conversation, and extensive readings from the novelists, Lessing, Schiller, Goethe; and Gore's *German Science Reader*, 3d edition. Two hours a week.

3. Study of the grammar continued; composition of German essays and literary sketches; critical study of German classics, and lectures on German history and literature. Two hours a week.

For Graduate Course in German, see under head of "Graduate School."

**Department of Latin.**

PROFESSOR MONTAGUE, Head of Department.

MR. PYNE, Assistant.

1. McCabe's Bingham's Latin Grammar.

2. Caesar; Cicero; Harkness's Latin Grammar; Exercises.

3. Cicero; Vergil; Exercises; Latin Grammar continued; Ovid; Livy; the Odes of Horace; and the History of Rome.

4. The Satires and Epistles of Horace; Cicero *De Senectute* et *De Amicitia*; Selected Letters of Cicero; the *Germania* of Tacitus; Exercises; and Latin Grammar.

5. The *Agricola* and Histories of Tacitus; Seneca; Juvenal; Quintilian; Exercises; Latin Grammar; and the History of Roman Literature.

For Graduate Course in Latin, see under head of "Graduate School."  
Courses 1 and 2 are preparatory and do not count for a degree.

**Department of Mathematics.**

PROFESSOR HODGKINS, Head of Department.

1. Algebra: three hours. Bowser's College Algebra.

2. Geometry: two hours. Wells' Plane and Solid Geometry.

3. Trigonometry: three hours, first term. Wells' Plane and Spherical Trigonometry, and Bowser's Treatise on Trigonometry.

4. Analytic Geometry: three hours, second term. Hardy's Analytic Geometry.

5. Calculus: two hours. Bowser's Calculus.

6. Higher Calculus and Differential equations: two hours. Bowser's Calculus; Rice and Johnson's Calculus; and Johnson's Differential Equations.

For Graduate Courses in Mathematics, see under head of "Graduate School."

### Department of Mental and Moral Philosophy.

PROFESSOR LODGE, Head of Department.

The method of instruction is, first, inductive, viewing the state of consciousness as complexes of physiological and psychological elements which are to be discriminated, described, and correlated empirically by the student; second, historical, tracing the evolution of philosophic opinions; third, comparative, passing in review the teachings of the greatest thinkers on the problems investigated in the class-room.

1. FIRST YEAR—Physiological Psychology. The class is introduced to the study by lectures on man's place in nature. In these the theory of evolution is discussed, and a summary of the arguments for and against it is given. During the first term the class studies Ladd's "Outlines of Physiological Psychology." The text-book for the second term is Porter's "Elements of Intellectual Science." Continual references are made to the writings of Wundt, Ribot, Sir William Hamilton, McCosh, Hall, Dewey, Sully, and James. Two hours per week.

2. SECOND YEAR—Rational Psychology. In the first term Dr. Porter's book is completed. During the second term the results of the recent researches along the lines of psychophysics are announced and interpreted. Care is taken to define the relations of psychology to pedagogy. Every lecture is followed by a brief oral examination thereon. The class is required to read and summarize in writing the most important articles that appear during the session in the *American Journal of Psychology*. Each student at the beginning of the second term is assigned a subject for investigation. On this subject a satisfactory essay must be written before the end of the session.

The above course will be supplemented by lectures, giving first a summary of ancient and mediæval speculation, and then discussing the essential characteristics, the development, the influence, and the fruits of the philosophic systems of such typical thinkers as Descartes, Locke, and Kant. Two hours per week.



**3. THIRD YEAR.—Moral Philosophy.** The instruction in moral philosophy includes the following features:

I. Students are taught to recognize, prescind, and correlate the ethical elements in psychical life.

II. The common terminology of ethics is subjected to a rigorous examination, psychological and philological, in order that the precise content of each word, as well as its origin and life-history, may be learned.

III. The course of moral speculation is outlined in lectures upon the chief ethical systems from Socrates to Spencer.

IV. The class then begins the study of Calderwood's "Handbook of Moral Philosophy," which is used as the basis of instruction during the remainder of the year. Two hours per week.

For Graduate Courses in Philosophy, see under head of 'Graduate School.'

#### **Department of Meteorology.**

PROFESSOR ABBE, Head of Department.

MR. CURTIS, Assistant.

The series of courses in the Department of Meteorology is designed to give a complete review of the present condition of that science, and is therefore necessarily extended through four years; but the series of lectures is so arranged that each of the four divisions is complete within itself; each course presents a view of a branch of the subject such as may be desired by a large number of students who need this information in connection with other branches of knowledge to which they are specially devoting themselves.

Students who intend to take the degree of Ph. D. in meteorology, and who therefore make this the major subject in connection with several other minor courses, must pursue the whole four years' course. Those who desire merely to enter the service of the United States Weather Bureau will probably find the first year's course sufficient to enable them to pass the necessary civil-service examinations. Those who desire to do work in climatological study should also take the second year. The third year's course is designed for those who wish to perfect themselves in methods of making local weather forecasts. Finally, the fourth year's course will serve as an abundant introduction to the present state of our knowledge of the mechanics and physics of the atmosphere. In addition to the lectures, the instructor will give one hour a week to a quiz-class, in which, by question and answer, he will seek to remove any difficulties that remain.

**1. OBSERVATIONAL METEOROLOGY.**—The methods of observation; the simpler instruments, their errors, corrections, and reductions; the use of

self-registers; the forms of record and computation; personal diary of the weather.

**TIME.**—About eighty lectures, or two hours a week, as also eighty other hours of personal investigation of instruments, especially self registers.

Algebra and trigonometry are necessary preliminaries to this course. Elementary laboratory physics, as illustrated by Hall and Bergen's text-book, is desirable as a preliminary, but may be pursued as a concomitant study. The German language is earnestly recommended as a concomitant. The differential and integral calculus will be needed as preliminary to the Graduate Course in Meteorology. (See page 108.)

2. Climatology, both local and general; empirical meteorology, generalizations, averages, periodicities, irregularities. The relation of climate to geology, to vegetation, to animal life, and to anthropology.

**TIME.**—About forty lectures and four hours weekly given to the investigation of special problems proposed in each lecture.

Students should be familiar with the use of logarithms; the method of least squares; the laws of chance; the details of physical geography, orography, geology, and ocean currents; the physiology of plants and animals; the distribution of species; physical astronomy, especially that of the sun, earth, and moon; terrestrial magnetism; the chemistry of the atmosphere; the biology of atmospheric dust. Physical laboratory work on radiation, conduction and absorption of heat, and on condensation and evaporation of vapor, and on elementary electricity, is recommended, while German, the calculus and analytic mechanics should be continued as preliminary to the Graduate Course. (See page 108.)

**TIME.**—Eighty lectures and an additional four hours a week given to special reading and investigation and to the preparation of the final thesis, as closing the four years' course.

**CONCOMITANT STUDIES.**—Riemann's "Differential Gleichungen;" Auerbach's "Hydrodynamics;" Lamb's "Fluid Motions" (new edition); physical laboratory work in gaseous motions, optical and electrical phenomena.

For Graduate Studies in Meteorology, see under head of "Graduate School."

#### Department of Mineralogy and Geology.

PROFESSOR YEATES, Head of Department.

MR. CHANDLER, Assistant.

##### MINERALOGY.

1. Descriptive Mineralogy. Two hours per week for one term.

Dana's Text-book of Mineralogy.

2. Determinative Mineralogy. Eight hours per week for two years.

Brush's Manual of Determinative Mineralogy.

This is a practical course, comprising the determination of minerals by means of the blow-pipe and the study of the physical characters of minerals by use of a set of well-selected specimens. Short courses in the identification of gems and ornamental stones and in blow-pipe assaying are provided for in the second year.

3. Crystallography. Two hours per week for one year.

Williams' Elements of Crystallography and Dana's System of Mineralogy (sixth edition).

4. Petrography.

Iddings' Translation and Abridgment of Rosenbusch's Microscopical Physiography of the Rock-making Minerals.

#### GEOLOGY.

The course in Geology will be taught by the use of models, charts, photographs, lantern-slides, rock specimens and fossils, and by field observations.

From time to time during the year excursions will be made, and the various formations in and around the District of Columbia will be studied.

1. Physical Geography. Two hours per week for one term.

Text-book: Appleton's Physical Geography.

2. Structural and Dynamic Geology. Two hours per week for one term.

3. Historical Geology. Two hours per week for one term.

4. Paleontology. Two hours per week for one year.

5. Paleobotany. Two hours per week for one term.

Text-book: Le Conte's Elements of Geology (1891). Reference books: Dana's Manual of Geology; Merrill's "Stones for Building and Decoration."

#### Department of Physics and Electrical Engineering.

INSTRUCTOR LEWIS, Head of Department.

MR. BUMSTEAD, Assistant.

MR. WOLFF, Assistant.

1. General Physics, two hours a week for one year. First term: Mechanics, Sound, and Heat. Second term: Light, Electricity, and Magnetism.

Barker's Physics (Advanced Course, American Science Series) will be used as a text-book. The course will be fully illustrated by experiments; working models of steam-engines, dynamos, and motors will be shown; and practical physical measurements will be made before the class.

The students who are candidates for degrees are required to perform about fifteen typical experiments in the laboratory.



2. **Elementary Mathematical Theory of Electricity.** Two hours per week for one term.

3. **Dynamo-electrical Machinery.** Two hours per week for one term. Slingo and Brooker's Electrical Engineering will be used as a basis.

4. **Advanced Mathematical Theory of Electricity and alternating current machinery.** Two hours per week for one term. Lectures based on Gerard, Emtage, Thompson, and other authorities.

5. **Technical Applications of Electricity.** Two hours per week for one term.

6. **Thermo-dynamics and the Steam-engine.** Two hours per week for one term.

Text-book: Holmes' Steam-engine.

7. **Physical Laboratory.** Three hours per week for one year. The exercises will include the fundamental measurements and experiments in all branches of Physics, including the following in Electricity and Magnetism: Map of magnetic field, determination of horizontal component of earth's magnetism, distribution of magnetism, qualitative electrostatic experiments, use of Wheatstone bridge, tangent galvanometer, determination of electro motive force, electro-magnet induction, measurement of current by water and copper voltmeter, magnetic dip by earth inductor.

8. **Advanced Laboratory Work.** Six hours per week for one year.

9. **Inspection of Electric Plants**

For Graduate Studies in Solar and Mathematical Physics, see under head of "Graduate School."

#### Department of Romance Languages.

PROFESSOR LODGE, Head of Department.

MR. RAMSEY, Assistant in Spanish.

1. **FIRST YEAR.**—Two hours per week. The class is drilled in French pronunciation, grammar, and composition; exercises in conversation. After some easy French by way of introduction, *Histoire d'un Conscrit* is read.

2. **SECOND YEAR.**—Two hours per week. Critical study of syntax; Composition; Dictation. *Le Cid*, *Histoire du Peuple Français*, *Andromaque*, *Bug-Jargal*, and *L'Avare* are read.

3. **THIRD YEAR.**—Two hours per week. Study of idioms; frequent recitations in French; Composition of French essays; Conversation; Lectures on the development of the French language and literature; selections from De Staël, Hugo, Lamartine, Souvestre, Sandeau, and Scribe.

For Graduate Studies in French, see under head of "Graduate School."

4. **SPANISH LANGUAGE.**—Two hours weekly for two years. Students will be drilled in pronunciation, in hearing the spoken language, and

in writing from dictation. The grammatical structure of the language will be presented, accompanied by practice in reading from modern Spanish and Spanish-American authors.

Text-book: Ramsey's Text-Book of Modern Spanish.

#### Department of Zoölogy.

PROFESSOR GILL, Head of Department.

Dr. STILES, Instructor in Histology.

For Graduate Studies in Zoölogy, see under head of "Graduate School."

#### Final Examinations.

Examinations are conducted under the following rules of the Board of Trustees:

"Examinations for *degrees* in the Columbian College and the Corcoran Scientific School shall be closed at least six weeks before the end of the scholastic year, and the names of all candidates for degrees who have passed a successful examination shall be officially reported, by the Faculty of each, to the President of the Faculty at least four weeks before the date of commencement."

"Examinations for *prizes* in each of the said Departments, and for the Degree of Master of Arts in the College, shall be closed at least five weeks before the end of the scholastic year, and the names of the successful candidates for either shall be reported at least three weeks before the date of commencement."

#### Certificates, Diplomas, and Degrees.

To the foregoing subjects a definite value or weight is assigned, the unit being, in general, one recitation a week for a year, with a satisfactory examination sustained at the close. (The unit in Designing work is two hours a week for one year. The unit in Field-work will vary according to circumstances.)

A student completing certain related branches of one department, and passing a satisfactory examination, will receive a Certificate of proficiency.

A student completing all the studies prescribed for any department of which the course extends over two or more years will receive a Diploma.

The degree of Bachelor of Science is conferred upon a student who successfully completes the courses offered or other equivalent courses, aggregating not less than sixty units, which have been approved by the Faculty.

For the courses of study in the Graduate School and the requirements

for admission to the degrees of A. M., M. S., C. E., E. E., and Ph. D., see under head of "Graduate School."

#### Requirements for Admission.

Candidates for the degree of Bachelor of Science must have a good knowledge of Arithmetic in all its branches, of Geography as taught in the best schools, English Grammar, Orthography and Composition Elements of Algebra and Geometry. Special students must be competent to pursue the special study selected.

No student will be admitted to any class until after matriculation—that is, until after first reporting his name to the President or the Dean of the Faculty, and receiving the certificate of the financial agent that the required tuition fees have been paid.

#### Prizes.

The Willie E. Fitch Prize, for highest excellence in all branches of Chemistry, founded by James E. Fitch, Esq., in memory of his son, consists of Fifty Dollars, which is awarded annually to the student passing the best examination in the Department of Chemistry.

To stimulate students in Engineering, prizes are offered by Francis R. Fava, Jr., Professor of Engineering, to students who attain certain standards in the following branches in the several years of the course:

1. The Designing problem in Building Construction (2d year).
2. A Report on Engineering Work with which the student has been connected during his vacation (3d year).
3. An Investigation in Graphical Statics (4th year).
4. The Degree Work (Graduate School).

The Prizes are awarded by Committees of eminent Engineers, outside of the University, invited for this purpose by the President of the Institution. The prize or prizes are given not merely for the *best* among all papers presented, but only for work reaching a certain *standard* required by the specifications. Thus, one student, even if alone, can compete for a prize, or, in the same class, several students can win prizes at the same time.

In order to be admitted to a prize competition an applicant must be at the time a student of that particular class in which the prize is offered and have a satisfactory standing in all the Departments for which he is registered.

Prizes 1 to 3 consist of valuable Engineering works, and Prize 4 of a medal.

The Willie E. Fitch Prize was awarded in 1892 to H. H. Hawling. The Fava Prize was awarded in 1891 to C. C. J. Norris for excellence in the Degree Work in Civil Engineering.



**Annual Tuition Fees.**

For single courses of study not involving any laboratory, designing or field work. ....	\$30 00
For full courses (in addition to laboratory fees) .....	90 00
Laboratory Courses in Chemical Laboratory.....	100 00
For chemicals used .....	25 00
Deposit (returnable) for apparatus injured.....	25 00
Laboratory Courses in Assaying of Ores and Bullion .....	40 00
For materials used.....	20 00
Laboratory Courses in Physical Laboratory.....	30 00
Laboratory Course in Mineralogy.....	60 00
For materials used.....	10 00
Laboratory work, field-work, and designing in Civil and Electrical Engineering.....	20 00
Constructive work in Drawing and Applied Geometry.....	30 00
For materials used.....	10 00

The tuition fees for special technical instruction not included in the above statement will be fixed when demanded, and will be determined largely by the number of students offering themselves in such work.

All fees for full courses are payable, in monthly installments, in advance. Fees for single or for special studies are payable in advance in half-yearly installments. No deduction on account of absence will be made for less time than one-quarter of a scholastic year.

A student desiring to make any change in his course of study or to drop any study must inform the Dean of this fact at the beginning of the month and have the change, if approved, indorsed on his matriculation certificate. Students failing to conform to this requirement are responsible for the fees entered on their certificates.

**Rooms and Board.**

During the year 1892-1893 desirable rooms, convenient to the University buildings, have been offered at \$5 to \$10 per month, and good board has been offered at \$15 to \$20 per month.

For further information regarding the Corcoran Scientific School, application may be made to

PROF. CHARLES E. MUNROE,  
*Dean of the Faculty*

N. B.—Students who wish to pursue the study of Greek in connection with the other studies prescribed in the College Course for the degree of Bachelor of Arts can do so on reporting their names to the President of the Faculty. Classes will be formed in this Department by the Rev. A. J. HUNTINGTON, D. D., Professor of Greek in the Columbian College.

**STUDENTS.\*****Candidates for the Degree of Doctor of Philosophy.**

Name.	Residence.
Knowlton, Frank Hall, B.S., 1884; M.S., 1887, Middlebury.	Maryland.
Orleman, Daisy M., M.D., 1890, Columbian University.	District of Columbia.
Yeates, William Smith, A.B., 1878; A.M., 1881, Emory & Henry.	District of Columbia.

**Candidates for the Degree of Master of Science.**

Name.	Residence.
Chandler, George Vose, Tucker, George Prescott, S.B., 1887, Worcester Poly. Inst.	District of Columbia. Nebraska.

**Candidates for the Degree of Civil Engineer.**

Name.	Residence.
Aspinwall, William Humphrey,	Pennsylvania.
Davis, Harold,	Ohio.
De Land, Theodore L., Jr.,	Illinois.
Deming, William I.,	District of Columbia.
Grove, George W.,	District of Columbia.
Harrington, Ward B.,	District of Columbia.
Hart, Franklin Wilson,	District of Columbia.
Johnson, John Scott,	Texas.
Jones, Charles C.,	West Virginia.
Lamson, William Mather,	District of Columbia.
Meigs, John, Jr.,	District of Columbia.
Muir, Edward Adams,	Pennsylvania.
Pendleton, Joseph Saxton,	District of Columbia.
Perry George Franklin,	District of Columbia.
North, Hilda,	District of Columbia.
Stevens, Percy Egbert,	District of Columbia.
Thurston, Ernest Lawton,	District of Columbia.
Uribe, Eduardo J.,	Colombia.
Walker, W. J.,	District of Columbia.

**Candidates for the Degree of Electrical Engineer.**

Name.	Residence.
Elguera, Manuel,	Peru.
M. E., Lima Polyt.	
Griffin, William G.,	District of Columbia.
King, William Randolph,	Mississippi.
Mayers, Charles Harrison,	West Virginia.
Moran, Frank de S.,	District of Columbia.
Muir, Edward Adams,	Pennsylvania.
O'Farrell, Patrick H.,	District of Columbia.
Stauffer, Henry Edgar,	Delaware.

**Candidates for the Degree of Bachelor of Science.**

Name.	Residence.
Bayley, Margaret,	District of Columbia.
Boettcher, Frederick Ludwig Johannes,	Virginia.
Boykin, Basil Manly,	Georgia.
Ewell, Ervin Edgar,	Michigan.
Falconer, Bolivar L.,	Texas.
Fuelling, J. L.,	District of Columbia.
Johnson, John Scott,	Texas.
Jones, Charles C.,	West Virginia.
McMichael, S. J.,	South Carolina.
Pressey, Harry Albert,	Maine.
Ramsey, Marathon Montrose,	West Virginia.
Randall, Walter Bailey,	Louisiana.
Rice, Herbert Louis,	Illinois.
Schneider, Oscar John,	Wisconsin.



## SPECIAL STUDENTS.

## Abbreviations.

A. C.—Analytical Chemistry.	G.—Greek.
ANTR.—Anthropology.	L.—Latin.
ARCH. DR.—Architectural Drawing.	M.—Mathematics.
AS.—Assaying.	MECH. DR.—Mechanical Drawing.
AST.—Astronomy.	MET.—Meteorology.
B.—Botany.	MIN.—Mineralogy.
B'P.—Blowpipe.	N. S.—Natural Science.
C.—Chemistry.	PHIL.—Philosophy.
C. E.—Civil Engineering.	P.—Physiology.
E.—English.	PHYS.—Physics.
ELECT.—Electricity.	PSY.—Psychology.
F.—French.	TOP. DR.—Topographical Drawing.
GEOL.—Geology.	Z.—Zoology.
GER.—German.	

Adams, John Arthur,	D. C.,	Top. Dr.
Alsop, E. W.,	Md.,	C.
Ammen, Ulysses Grant,	Md.,	C., M., Mech. Dr.
Appleman, Frank S.,	Ohio,	Phys., Elect.
Armstrong, John E.,	N. Y.,	E., M., F., Ger., Geol.
Arnold, F. S.,	D. C.,	C., M., Mech. Dr.
Arnold, Mrs. F. S.,	N. J.,	E.
Bannon, Alice L.,	D. C.,	Ger.
Barnard, Wm. F.,	Pa.,	M.
Beeler, George L.,	Ill.,	M., F., Ger., Arch., Mech., and Top. Dr.
Bell, Hettie,	D. C.,	M.
Beck, Winfred.	S. C.,	M.
Bogley, Edwin Hamilton,	Md.,	M., Arch. Dr., Mech. Dr.
Bolles, F. G.	Wis.,	M., Ger., Phys., Elect., Mech. Dr.
Bradford, Mary Knight.	Mass.,	M., Arch. Dr.
Brand, W. D.,	D. C.,	C., Phys.
Broun, C. L.,	Va.,	M., Phys., Elect., Mech. Dr.
Brown, W. W.,	Tenn.,	E., M., F.
Bullock, Julia E.,	D. C.,	M.
Burger, L.,	D. C.,	Phys., Elect.
Burke, Raymond L.,	Va.,	C., E., F., Ger., Mech. Dr.
Bush, Anna B.,	N. Y.,	E.
Camp, Harold,	D. C.,	E., M., F.
Carlyle, Frederic W.,	N. Y.,	Arch. Dr.
Carson, Edith M.,	D. C.,	Mech. Dr.
Churchill, F. L.,	Wis.,	Geol., Min.

Coleman, Mary M.,	Va.,	E.
Cook, De Witt C.,	N. Y.,	E., M., F., G., Psy., Ast., Top. Dr.
Cottrell, K. W.,	D. C.,	E.
Craig, C. R.,	S. C.,	M.
Daly, Bartholomew,	D. C.,	A. C.
B. S., Columbia University, 1891.		
Daniel, E. H.,	D. C.,	M., Phys., Mech. Dr., Top. Dr.
Dickerson, Ada G.,	D. C.,	Ger.
Duggan, J. F.,	Miss.,	Ger.
Durant, H. B.,	Ohio,	M., Phys., Mech. Dr.
LL. B., 1891, LL. M., 1892, Columbia University.		
Ellis, Florence V.,	D. C.,	M.
Esty, Warren B.,	R. I.,	E.
Fairly, Frances S.,	D. C.,	Psy.
Faulkner, W. T.,	Miss.,	E., M.
Fischer, Samuel,	Ky.,	M., Phys., Elect.
Forrest, Julius C.,	D. C.,	M.
Fowler, Harry B.,	D. C.,	M., E., Ger., Mech. Dr.
Gambrill, Maria,	Ga.,	Ger.
Gapen, Clinton T.,	D. C.,	Top. Dr.
Gardner, Howard S.,	D. C.,	M.
Gensler, A. C.,	D. C.,	Mech. Dr.
Geyer, Blanche M.,	D. C.,	Arch. Dr.
Gillies, C. T.,	Ill.,	C., E., M., Mech. Dr.
Gordon, Alex., Jr.,	D. C.,	M., Ger., Phys., Elect., Mech. Dr.
Graham, H. H.,	D. C.,	E., M., L.
Grosvenor, Gertrude,	D. C.,	Ger.
Gulick, Charles L.,	D. C.,	C., M., Mech. Dr.
Harlan, Rolvix,	D. C.,	M.
Harvey, E. L.,	N. Y.,	Phys.
Hawling, H. H.,	D. C.,	C.
Haycock, G. S. R.,	D. C.,	Phys., Elect.
Hayden, Frank,	W. Va.,	F., L.
Hayden, Raphael,	W. Va.,	F., L.
Hepburn, Fannie N.,	D. C.,	Ger.
Hoffman, W. Maurice,	D. C.,	L.
Hollingsworth, Sidney P.,	Va.,	E., M., F.
M. D., National University, 1886.		
Holt, Frank Wilber,	Wis.,	Elect.
B. C. E., 1885, University of Wisconsin.		
LL. B., 1888, LL. M., 1889, Columbia University.		
Hubbard, W. F.,	D. C.,	M.

Jenkins, Thomas L., N. C., M.  
 Jennings, James Henry, D. C., C. E., Arch. Dr.  
 Ph. B., 1887, Sheffield Scientific School.

Jones, Hattie, N. Y., M.  
 Jones, J. Gordon, N. H., M.  
 Jordan, Harry C., D. C., M.  
 Kembball, W. M., D. C., Mech. Dr.  
 Kerr, W. H., Mo., M.  
 Keyser, Charles E., D. C., As.  
 Kluge, Anna A., Iowa, E.  
 Lane, Cyrus M., Mo., Arch. Dr.  
 Levesque, Anna H., Ind., F.  
 Lewis, Edward Smith, D. C., A. C.

A. M., University of California, 1892.

Lichty, J. B., Ill., M., Phys., C. E., Mech. Dr.  
 Littlefield, Charles A., D. C., Mech. Dr.  
 Luckett, Dinwiddie J., Md., M., C. E.  
 McNally, Joseph J., Iowa, M.  
 Mann, Horace, D. C., E., Ger., C. E.  
 Mattingly, P. H., D. C., M., Arch. Dr., Mech. Dr.  
 Maurin, Timothy Francis, La., A. C.  
 Merillat, M. J., D. C., M.  
 Miller, Hiram, Jr., D. C., M., Ger., Arch. Dr., L.  
 Mitchell, B. F., Kan., M., Phys., Mech. Dr.  
 Moreland, W. S., S. C., M.  
 Norris, Calvin C. J., Ill., Elect.

C. E., Columbian University, 1891.

Noyes, E. R., D. C., A. C.  
 Oertly, David H., D. C., M.  
 Pettigrew, Augusta M., Me., Ger., Pay.

M. D., Columbian University, 1891.

Phelps, Charles Preston, D. C., A. C.  
 Pittis, E. A., Ohio, Arch., Mech., and Top. Dr.  
 Probasco, Wallace M., Ohio, M., F., Ger., Phys., Elect.  
 Purman, James W., D. C., A. C., As.  
 Raber, Katherine M., D. C., E.  
 Ramsey, E. P., N. J., Elect.  
 Reeves, Beulah Belle, D. C., Arch. Dr.  
 Rose, W. P., Va., M., Mech. Dr.  
 Rosen, George E., Ky., M.  
 Ruebeam, Ernest Carl, D. C., Phys., Elect.

C. E., Columbian University, 1892.



Runyan, E. G., Mich., Geol., Min.

B. S., 1889, Columbian University.

Saul, John A., D. C., Mech. Dr.

Slate, Wm. W., Vt., C.

Slater, H. D., D. C., M.

Snowden, Elizabeth V., D. C., Ger.

Snyder, Rev. Wm. Tayloe, D. C., Psy.

Stetson, C. Rochford, D. C., A. C.

Steward, Willard Gilbert, La., Phys., Elect.

C. E., Columbian University, 1891.

Strong, George W., D. C., M.

Swann, John Joseph, D. C., M., Ger.

Swearingen, Henry B., Ohio, M., C. E., Mech. Dr., Top. Dr.

A. B., Kenyon College, 1888.

Talcott, E. M., D. C., M.

Tasker, Vernon C., D. C., M.

Taylor, A. A., Ohio, E.

Taylor, S. G., Ohio, Arch. Dr.

Taylor, T. C., Ohio, M., Arch. Dr.

Thompson, C. F., D. C., Phys.

Thompson, N. G., D. C., M., C. E.

Vale, F. P., D. C., Geol.

Walker, Eva, D. C., C.

Walker, W. Pinckney, D. C., M., Mech. Dr., Top. Dr.

Watson, Maud, D. C., L.

Weeks, Fred. B., Kan. Top. Dr.

Wheeler, Nellie, Mo. E.

White, Edward Lowry, D. C., M., Ger., Phys., Elect., Mech. Dr.

Whitty, E. F., D. C., As.

Wilson, Anne E., S. C., Ger.

Woollen, Albert S., Ind., M.

Students in the Scientific School . . . 174

#### Recapitulation.

Students of Law . . . . .	348
Students of Medicine . . . . .	161
Students of Dentistry . . . . .	46
Students in Arts and Sciences . . . . .	236
Aggregate . . . . .	791
Students in the Preparatory School . . . . .	74
Total . . . . .	865

## THE GRADUATE SCHOOL.

### Faculty.

JAMES C. WELLING, LL.D., PRESIDENT,  
Professor of History.

CHARLES E. MUNROE, S. B., DEAN,  
Professor of Chemistry.

THE REV. ADONIRAM J. HUNTINGTON, D. D.,  
Professor of Greek.

THE REV. SAMUEL M. SHUTE, D. D.,  
Professor of English.

ANDREW P. MONTAGUE, A. M., PH. D.,  
Professor of Latin.

J. HOWARD GORE, B. S., PH. D.,  
Professor of Mathematics.

LEE D. LODGE, A. M., PH. D.,  
Professor of French.

D. KERFOOT SHUTE, A. B., M. D.,  
Professor of Anatomy.

FRANCIS R. FAVA, JR., C. E.,  
Professor of Civil Engineering.

THEODORE N. GILL, M. D., PH. D.,  
Professor of Zoölogy.

OTIS T. MASON, A. M., PH. D.,  
Lecturer on Anthropology.

CLEVELAND ABBE, A. M., PH. D.,  
Professor of Meteorology.

HERMANN SCHÖNFELD, PH. D.,  
Professor of German.

THE REV. J. MACBRIDE STERRETT, D. D.,  
Professor of Philosophy.

EDGAR FRISBY, A. M., U. S. N.,  
Professor of Astronomy.

WILLIAM C. WINLOCK, A. B.,  
Professor of Astronomy.

WILLIAM T. HARRIS, LL. D.,  
Professor of Philosophy.

EMIL A. DE SCHWEINITZ, PH. D.,  
Professor of Bio-Chemistry.

F. W. CLARKE, S. B.,  
Professor of Mineral Chemistry.

HARVEY W. WILEY, A. M., M. D., PH. D.,  
Professor of Agricultural Chemistry.

THE REV. FRANK H. BIGELOW, A. M.,  
Professor of Solar Physics.

ALEXANDER S. CHRISTIE, A. M., LL. M.,  
Professor of Mathematical Physics.

GEORGE P. MERRILL, PH. D.,  
Professor of Geology.

EXUM PERCY LEWIS, B. S.,  
Instructor in Electrical Engineering.

The School of Graduate Studies was established by order of the Corporation of the University at the annual meeting in 1892, and will be opened for the reception of students on Thursday, the 5th of October, 1893.

The School will be opened each year with a public address by a member of the Faculty. The opening address of the scholastic year 1893-'94 will be delivered by the President of the University, who will take for his topic, "The Science of Universal History, considered as the indispensable complement of the Physical Sciences."



### Degrees.

The degrees of Master of Arts (A. M.), Master of Science (M. S.), Civil Engineer (C. E.), Electrical Engineer (E. E.), and Doctor of Philosophy (Ph. D.) are conferred on members of the Graduate School under such regulations as may be established from time to time by the Board of Directors of the School; but no graduate student will be regarded as a candidate for any advanced degree until he shall have been admitted to such candidature by the Board of Directors.

### Masters' Degrees.

Persons holding degrees of A. B. from institutions of repute are qualified to enter as candidates for the degree of A. M., and those holding S. B. degrees for the degree of M. S.

Candidates for a Master's degree to be eligible shall pass one year at this University in the advanced study of at least one subject, and shall sustain a satisfactory examination and present a satisfactory thesis on this subject.

### Engineering Degrees.

Persons holding the degree of S. B. in Engineering courses, or their equivalent from institutions of repute, are qualified to enter as candidates for the degrees of C. E. and E. E.

Candidates to be eligible shall pass at this University one year in the advanced study of engineering subjects, shall sustain a satisfactory examination in these subjects, and shall present a satisfactory thesis.

The matriculation fee of candidates for Masters' or Engineering degrees is ten dollars, the annual fee for instruction and direction ninety dollars, and the fee for laboratory courses the same as that of candidates for the Doctor's degree.

### Doctors' Degrees.

Persons holding degrees of Master in Science, Art, or their equivalent, from institutions of repute, are qualified to offer themselves as candidates for the degree of Ph. D.

Candidates for the degree of Ph. D. shall offer themselves in three topics for advanced study—one major and two collateral minor subjects. Before being admitted as candidates they shall pass satisfactory examinations in French and German, shall pay an examination fee of five dollars for the examination in each of these tongues, and shall pay a matriculation fee of ten dollars.

To be eligible for the degree, candidates who hold Masters' degrees shall pass two years in study at this University; they shall sustain satisfactory

examinations upon the three subjects which they may have elected, and they shall present theses embodying the results of original research in their major subject, which theses they shall be prepared to defend before a board of experts, and shall accompany with an exhaustive bibliography.

The annual fee for candidates for a doctor's degree is ninety dollars where no laboratory courses are taken. Where laboratory courses are taken the fee in excess of this sum will be fixed according to regulations prescribed by the Board of Directors with the approval of the corporation. The matriculation fee will be remitted to those who have taken the master's degree in this University.

#### **Courses of Study in the Graduate School.**

The following courses of study are offered to students in the Graduate School. Candidates for the degree of Ph.D. will be required to select their major subject from among those offered below, but the minor subjects may be chosen from among any offered in the University which may prove acceptable to the Board of Directors of the Graduate School.

#### **Board of Directors of University Studies.**

JAMES C. WELLING, LL.D., President, and Professor of History.  
 CHARLES E. MUNROE, S.B., Dean, and Professor of Chemistry.  
 The Rev. A. J. HUNTINGTON, D.D., Professor of Greek.  
 The Rev. SAMUEL M. SHUTE, D.D., Professor of English.  
 THEODORE N. GILL, M.D., Ph.D., Professor of Zoölogy.  
 OTIS T. MASON, A.M., Ph.D., Lecturer on Anthropology.  
 CLEVELAND ABBE, A.M., Ph.D., Professor of Meteorology.  
 D. KERFOOT SHUTE, A.B., M.D., Professor of Anatomy.  
 J. HOWARD GORE, B.S., Ph.D., Professor of Mathematics.  
 LEE D. LODGE, A.M., Ph.D., Professor of French.  
 HERMANN SCHÖNFELD, Ph.D., Professor of German.  
 The Rev. J. MACBRIDE STERRETT, D.D., Professor of Philosophy.  
 The Rev. FRANK H. BIGELOW, A.M., Professor of Solar Physics.

Inquiries for special information concerning graduate studies in Language, in Speculative Philosophy, in Moral, Political, and Historical Philosophy, and in Anthropology should be addressed to the President of the University.

Inquiries for special information concerning graduate studies in Mathematics, in Astronomy, in Chemistry and Physics, in Geology, in Zoölogy, in Comparative Anatomy, in Meteorology, and in Civil and Electrical Engineering should be addressed to the Dean of the Graduate School.

**Graduate School of English.**

PROFESSOR SHUTE.

Graduate studies in this School are offered in—I. English Etymology; II. English Literature; III. American Literature; IV. Anglo-Saxon Prose and Verse, leading, according to prescribed groupings and range of studies, to the degree of Master of Arts or Doctor of Philosophy.

**Graduate School of Greek.**

PROFESSOR HUNTINGTON.

To candidates for the Master's Degree one of the following courses is offered:

- I. Herodotus and Thucydides.
- II. Homer (parts of the Iliad and Odyssey not read in the undergraduate course) and the Lyric Poets.
- III. The Attic Orators.

To candidates for the degree of Doctor of Philosophy two of the following courses are proposed:

- I. Any two of the courses offered above for the Master's Degree except the one already pursued for that degree.
- II. The Tragic Poets.
- III. Plato or Aristotle.

**Graduate School of Latin.**

PROFESSOR MONTAGUE.

- I. Plautus; Terence; Lucretius; Thesis on the Rise and Development of the Roman Drama.
- II. Cicero; Livy; Catullus; Thesis on the Source and Character of Roman History.
- III. Pliny the Elder; Pliny the Younger; Suetonius; Tacitus; Thesis on Oratory under the Empire.

Groupings and range of studies for the degrees of Master of Arts and Doctor of Philosophy, respectively, subject to arrangement.

**Graduate School of French Philosophy.**

PROFESSOR LODGE.

The following courses in French Philosophy and in the French Language and Literature are offered to graduate students:

- I. A Summary of Greek and Roman Philosophy, with a view to establishing the continuity of French thought.

Text-book: Weber's *Histoire de la Philosophie Européenne*.



a. Germinal Forms of French Philosophy, implicit in the Literature of France before the Seventeenth century.

b. Medieval French Philosophy.

II. Descartes: The Evolution of Cartesianism, and Influence of Descartes on Modern Thought.

III. The Eighteenth Century; Voltaire; The Encyclopédie.

IV. The Nineteenth Century; Cousin and Eclecticism; Comte and Positivism; Recent Philosophy: Spiritualistic, Jouffroy, Jules Simon, Janet; Empirical, Ribot.

V. Political Philosophy: La Boétie, Bodin, Voltaire, Rousseau, Montesquieu.

The completion of any one of the above courses will entitle the student to the degree of Master of Arts, and the completion of any two will be accepted as a major subject for the degree of Doctor of Philosophy.

In all these graduate courses constant use will be made of the valuable sources of original research which are accessible to students in the libraries of the several departments of the Government and of Congress.

#### Graduate School of German.

##### PROFESSOR SCHÖNFELD.

I. History of German Literature, with references to Oelmar, Scherer, Kurz, and König.

II. Critical Study of the Nibelungenlied, Zarncke's edition.

III. Literature of the Renaissance and Reformation, with special reference to Erasmus, Ulrich von Hutten, Luther, Murner, Fischart.

IV. History of the Middle Ages, from the beginning of the migrations of peoples to the establishment of the Feudal System and the evolution of European States.

The grouping of studies and the range of research for the degrees, respectively, of Master of Arts and of Doctor of Philosophy subject to arrangement.

The archives of the National Capital will be utilized for research work.

#### Graduate School of Philosophy.

##### PROFESSOR STERRETT and PROFESSOR HARRIS.

The following courses are offered for the degrees of A. M. and Ph. D.:

I. Aristotle's Ethics and Politics

II. The Ethical Theories of Hobbes, Bentham, Mill, and Spencer.

III. The Ethics of Kant and Hegel's Rechtsphilosophie.

IV. Kant's Critique of the Pure Reason and his Critique of the Judgment.

V. Hegel's *Logik* and *Philosophie des Geistes*.

VI. The Philosophy of Religion, Hegel and Pfleiderer.

Any one of these courses may be taken for the Master's degree. Any two of them will constitute a major subject for the Doctor's degree.

Other equivalent courses may be concerted with the Professor in charge.

PROFESSOR WILLIAM T. HARRIS, LL. D.,

Commissioner United States Bureau of Education.

Dr. HARRIS will coöperate with Dr. STERRETT in carrying out certain of the courses above outlined, and will offer special courses in—

1. The exposition of Hegel's *Ästhetik*;
2. The exposition of Hegel's Philosophy of History; and
3. The History of Philosophy:
  - a. The relation of Greek to German Philosophy.
  - b. German Philosophy from Kant to Hegel.

#### PRESIDENT WELLING.

##### FOR THE DEGREE OF MASTER OF ARTS.

- I. The historical significance of the so-called "Quarrel of the Ancients and the Moderns" in the 17th century, with critical references under this head to the writings and influence of Fontenelle, Perrault, Pascal, Boileau, Sir William Temple, Wotton, Bentley, Dean Swift, Boyle, and others. Rigault's "*Histoire de la Querelle des Anciens et des Modernes*" will be used as a literary guide-book in the conduct of this investigation, which, however, will have for its main object to prompt an original inquiry into the sources of the philosophical idea of human progress. Or—
- II. The specific contributions made by the Government of the United States to the improvement of International Law: A critical study and amplification of Wharton's Digest, with an original thesis on the "Right of Asylum," historically and theoretically considered.

##### FOR THE DEGREE OF DOCTOR OF PHILOSOPHY.

Analytic investigations will here be combined with a study of synthetic philosophies, and will comprise—

- I. Original study and investigation in a formative epoch of history, such as—
  - a. The Conversion of the Roman Empire to Christianity.
  - b. The Rise and Formation of the Temporal Power of the Papacy.
  - c. The Renaissance.
  - d. The Political Awakening in the 18th Century: Causes of the American and the French Revolutions.

*c.* The New Intellectual Awakening: The Rise and Influence of Modern Scientific Method.

Historical experts will be called to assist in directing the investigation of these epochs.

II. A Critique of the Philosophy of History, in the successive stages of its elaboration, from Epiphanius and St. Augustine to Hegel, Comte, and Draper. This critique of the formal philosophies of history will be checked at all points by the comparative method of anthropological science, and the student will be required to take Part II (Culturgeschichte) of the graduate course in Anthropology. (See p. 107.)

**Graduate School of Mathematics.**

PROFESSOR GORE.

For the degree of Master of Arts: Higher Plane Curves (Salmon); Modern Higher Algebra (Salmon).

**Graduate School of Solar Physics.**

PROFESSOR FRANK H. BIGELOW,  
Of the United States Weather Bureau.

Graduate studies, for the degree of Doctor of Philosophy, in Solar Magnetism, Cosmical Electricity, and Magnetism, with their relations to Meteorology:

I. SOLAR MAGNETISM.—The constitution of the sun, the solar corona, the sun-spots, and allied problems in solar physics, giving the grounds for the recent developments of the theory that the sun is a polarized sphere, surrounded by a magnetic field, which is the basis of these phenomena.

II. COSMICAL ELECTRICITY AND MAGNETISM.—The two fields of force emanating from the sun, their mode of propagation through the ether, the theory of magnetic and electro-magnetic fields as applied to the theories of light, heat, and ether wave-motions. Authors: Maxwell, Poincaré, Fleming, Watson, and Burbury, with references to the recent literature in scientific journals.

III. TERRESTRIAL MAGNETISM.—The distribution of the permanent magnetism of the earth, its disturbance by the solar fields, magnetic instruments, observatories and methods of observation, magnetic storms, the aurora, and atmospheric electricity, with a history of the progress of science of each portion. Authors: Gauss, Lloyd, Walker, Stewart, and Gee, the reports of observatories and recent scientific papers.

IV. METEOROLOGY.—The thermo-dynamic theory of the distribution of the atmosphere, the motions of the same, the periodic variations due to



the solar fields, and the long-range predictions of the weather. A statement of the latest progress in the development of this branch of physics, together with the allied questions of atmospheric absorption and transmission of energy, including important contributions of physical laboratories bearing on these subjects, will be indicated to the student.

#### **Graduate School of Mathematical Physics.**

PROFESSOR ALEXANDER S. CHRISTIE,

Of the United States Coast and Geodetic Survey.

Graduate studies for the degree of Doctor of Philosophy in Mathematical Physics:

The course will be based upon the *Traité de Physique Mathématique* of Emile Mathieu, 7 vols., 4to, Paris, 1873-'90. This work deals with the methods of integration in mathematical physics, the theory of capillarity, the theory of the potential, with its applications to electricity and magnetism; the theory of electro-dynamics, and the theory of the elasticity of solid bodies.

#### **Graduate School of Theoretical Astronomy.**

PROFESSOR EDGAR FRISBY, U. S. N.,

Of the United States Naval Observatory.

PROFESSOR WILLIAM C. WINLOCK,

Of the Smithsonian Institution.

A general knowledge of Descriptive Geometry and of Analytic Mechanics being presupposed, the University offers in this School for the degree of Doctor of Philosophy a reading course in the determination of orbits (with special practice in computing), under the following heads:

I. The Theory of Computing the Parabolic Orbit of a Comet from Three Observations, with an ephemeris. Encke's Memoir on Olbers' Method. *Abhandlungen, Erster Band*. Books of reference: Watson's Astronomy, Oppolzer's *Bahnbestimmung der Cometen und Planeten*.

II. The Theory of Computing an Elliptical Orbit, or any Conic Section, from Three or Four Observations. Gauss's *Theoria Motus*. Books of reference, as above.

III. An Outline of the Method of Least Squares. Encke, Chauvenet, Brunnow, Watson, Johnson.

IV. The Theory of Special Perturbations, with Method of Integrating by Mechanical Quadratures. Encke: *Abhandlungen, Zweiter Band und Dritter Band*. Books of reference, as above. The method of the variation of the six elements will first be taught. The other methods of Hansen and of rectangular coordinates will follow if needed.

V. The Theory of General Perturbations. Tisserand, *Mécanique Céleste*. An abstract should here be made for the initiation of the student into this most extensive subject. Books of reference: Laplace, *Mécanique Céleste*; Lagrange, *Mécanique Analytique*, and *Memoirs*; Leverrier, *Annals of the Paris Observatory*; Hansen, *Auseinandersetzung*; Pontécoulant, *Système du Monde*, &c.

#### Astro-Physics.

The University is authorized to announce that one or two students, if possessing special qualifications and prepared by their training to engage in astro-physical research, may be received into the Astro-Physical Observatory connected with the Smithsonian Institution. They will be chiefly employed upon investigations in radiant energy.

#### Graduate School of Chemistry.

##### PROFESSOR MUNROE.

Schemes of graduate study in Chemistry leading to the degree of Master of Arts or of Doctor of Philosophy will be offered to students according to their previous training and special aptitudes. Among the courses projected are certain researches upon explosive substances; analytical methods; the phenomena of deliquescence and efflorescence.

##### PROFESSOR CLARKE.

Chief Chemist of the United States Geological Survey.

Professor CLARKE offers to properly equipped students a course of research work in the development of his theory of the construction of the natural silicates, and also courses in the redetermination of atomic weights.

##### PROFESSOR WILEY.

Chief Chemist of the Department of Agriculture.

Professor WILEY will direct special researches in Agricultural Chemistry, provided that students properly trained in the elements of that science shall present themselves for advanced work.

##### PROFESSOR DE SCHWEINITZ.

Of the Bureau of Animal Industry.

Professor DE SCHWEINITZ offers a course in Bio-Chemistry. This course embraces, in addition to what is ordinarily called physiological chemistry—

I. A study of the products, ptomaines and albumoses, of the growth of germs, either in the animal body or upon artificial media.

II. The influence of these substances in causing disease and their relation to, as well as their effect in, insuring immunity.

**Department of Zoölogy.**

PROFESSOR GILL, Head of Department.  
Honorary Curator in the Smithsonian Institution.

DOCTOR STILES, Instructor in Histology,  
Of the Bureau of Animal Industry.

A general course of lectures is given on the Principles of Zoölogy, including a consideration of the philosophy, the methods of investigation, and the systems of zoology as determined by comparative anatomy.

The lectures are supplemented by work in the laboratory, embracing histology, microtomy, and dissection.

**Graduate School of Anthropology.**

DR. OTIS T. MASON,

Curator in the United States National Museum.

Candidates for the degree of Doctor of Philosophy in this School are expected to know as much of mineralogy, geology, geography, botany, zoölogy, and history as is taught in our best colleges. Some familiarity with the classical languages is very desirable, and French and German are absolutely essential. Students should have a knowledge of anatomy and physiology. (See these courses in the curriculum of the Medical School.) They should also have pursued a course in psychology, with especial reference to the study of physiology. (See Corcoran Scientific School, Department of Mental and Moral Philosophy.)

The special studies of the School comprise—

I. Study of the races of man.

II. The history of culture (*Culturgeschichte*) as embodied in the languages, industries, art, social life, philosophy, and mythology of the various peoples of the earth.

III. The history of the past as revealed in the sciences of archæology and folk-lore.

The works of Topinard, Ladd, Brinton, Peschel, Müller, Hæckel, Hovelacque, Keane, Tylor, Spencer, Morgan, Evans, Gomme, and Lang are used as text, with readings in the journals of the four great Anthropological societies.

**Comparative Osteology and Artistic Anatomy.**

PROFESSOR D. K. SHUTE.

The special studies in this branch comprise—

I. A brief exposition of the principles of the Evolution of Organic Forms generally; the Vertebrate Form and its Variations, especial atten-



tion to be given to the subject of Homologies; the Human Form and its Variations—the latter as affected by occupation, age, sex, disease, etc.

II. Such thoroughness in the descriptions of the several Bones, Joints, and Muscles, and such study of the Surfaces of the Living Model as will enable the Artist to understand the Statics and Kinetics of the Human Body; Methods of studying the Proportions of the Human Body, etc.

#### Graduate School of Meteorology.

PROFESSOR ABBE,  
Of the United States Weather Bureau.

The following scheme of studies in Meteorology, subject to arrangement between the teacher and his pupils, is offered for the degree of Doctor of Philosophy:

I. Practical meteorology; the daily weather chart; the empiric laws of weather changes as depending on meteorological data, and the arrangement of continents, plateaus, mountains, oceans, etc.; weather types and typical weather charts; prediction of daily weather and seasonal climates; verification of predictions.

TIME.—About forty lectures and at least five hours a week additional, in verifying old laws and studying new ones, in making and verifying predictions.

CONCOMITANT STUDIES.—Methods of chart projection; experimental laboratory work in both steady and discontinuous motions of fluids and gases; mathematical and experimental electricity; the laws of refraction and interference of light; elementary hydrodynamics and thermodynamics; differential equations and definite integrals; the German language.

II. Theoretical meteorology. Insolation. The absorption, conduction, and radiation of heat by the air and the earth. The thermo-dynamics of the atmosphere; the graphic methods of Herz and Bezold. Convective equilibrium, as applied to the atmosphere of the sun by Lane, and to that of the earth by Sir William Thomson (Lord Kelvin) and his successors. Motion on a rotating globe; Ferrel's and other simple approximate relations between baric gradients and the wind and temperature; Ferrel's general circulation of the atmosphere and his cyclones and pericyclones and tornados. Galton's cyclone and anti-cyclone. Fourier's most general equations of gaseous motions. Oberbeck's general circulation. Helmholtz's horizontal rolls. The investigations of Diro Kitao, Guldberg and Mohn, Marchi, Boussinesq, A. Poincaré, Sprung, Siemens, Moeller, Ritter, and others into the motions of the atmosphere. Vis-

cosity and discontinuous movements. The possible special solutions of the general equations of fluid motions that apply to the true atmospheric circulation, both on the earth and on the other planets. Atmospheric tides; theories of Laplace, Ferrel, Rayleigh, Margules, A. Poincaré. Theories of atmospheric electricity.

#### Graduate School of Geology.

PROFESSOR MERRILL.

Curator in United States National Museum.

This School offers facilities for advanced study in physical geology, both systematic and applied. Besides a reading knowledge of both French and German, a sufficient knowledge of crystallography and the physics of light is required to enable the student to comprehend and utilize the methods employed in microscopic petrography. The course as planned presupposes a knowledge of determinative mineralogy by both blowpipe and qualitative chemical methods. In case the student selects geology as his principal study, it is advised that a course in quantitative chemical analysis be chosen as one of his minor subjects. It is also desirable that the student devote a certain amount of time to the study of topographic engineering, making himself at least acquainted with the methods of surveying, topographic sketching, and plane table work, if not proficient therein.

During the first year the student may devote his time largely, if necessary, to perfecting himself in methods, to general work in the laboratory and in the field, to the examination of geological materials, and to familiarizing himself with the literature of the subject. The utility of the various text-books will be recognized, but a very large proportion of the desired knowledge on any subject must be gained from special memoirs and from the current literature as it appears in numerous periodicals. The various sources of information, the most essential lines of work, as well as the most promising fields of investigation, will from time to time be indicated by the instructor.

During the second year it is expected that the student will devote himself to some special investigation which shall serve as the subject of his thesis. Upon the thoroughness with which this subject is handled, the accuracy of observation, and the originality manifested must depend in largest measure his qualification for the desired degree. The course will be modified to suit individual cases in order that the student be restricted as little as possible in the exercise of personal taste, originality, and capacity for work. Particularly favorable facilities are offered in this course for work in petrography and in various branches of economic

geology, owing to the extensive systematic series which will be found available for study in the exhibition halls of the National Museum. Students in architecture and engineering will also find it to their advantage to devote a portion of their time to the subjects presented in this course, giving particular attention to the subjects of strength, durability, and the general weathering qualities of natural structural materials, as well as to the relative hardness and toughness of rock-masses, their structure and methods of formation.

#### **Graduate School of Civil Engineering and Applied Mathematics.**

##### **PROFESSOR FAVA.**

Students holding the degree of B. S. in Civil Engineering (Course II) of the Corcoran Scientific School or its equivalent can obtain the degree of C. E. by pursuing studies in this Department for one year, as shown below:

The studies will embrace courses 12 and 13 in the Department of Applied Mathematics of the Corcoran Scientific School, courses 10, 13, 19, and 20 in the Department of Engineering, and course 9 in the Department of Chemistry of the same school; also the law of contracts, political economy, and the elements of business practice. According to personal option, either Engineering courses 22 and 23 of the Corcoran Scientific School in a mechanical direction, or Engineering courses 25, 26, and 27 of the same school in a building construction direction, are recommended. Owing to the large field for the employment of engineers in Spanish-American countries, the Spanish language is recommended for study.

Besides these studies, a complex practical problem of a certain magnitude is given to the applicants for the degree of Civil Engineer immediately after they have obtained the degree of B. S. in course II. This problem is to be solved during the following year as thesis work. The candidate is placed in the same position as the practising engineer; he has to collect his own data, make his surveys, and is allowed to draw his information from all available sources; but he is expected to furnish a comprehensive report and exhibits, drawings, estimates, etc., which will be complete, and throughout satisfactory as to contents as well as to form.

The subject selected is generally one of the great engineering problems of the day, either in the District of Columbia or outside. The subjects for graduation during the last three years have been: "A New Sewerage System for Washington City;" "A New Water Supply System for the District of Columbia;" "The Railroad Terminal Problem in Washington City;" "The Reconstruction of the Chesapeake and Ohio Canal with regard to protection from floods;" "The Utilization of the Water Power at the Great Falls of the Potomac River for the production and supply of



pneumatic power for street railroads, elevators, ventilation, and industrial purposes for the city of Washington." (For prizes for thesis work, see page 89.)

### Applied Mathematics.

The degrees of M. S. and Ph. D. can be obtained through studies in this Department in the following directions:

I. *Geometry of position*, developed by projective methods, based on the works of v. Staudt, Möbius, Steiner, Poncelet, etc. Courses 1 and 2 of the Department of Applied Mathematics of the Corcoran Scientific School and 1 to 5 of the Department of Mathematics, of the same school, and a knowledge of the German and French languages are necessary preliminaries but the knowledge of advanced mathematics, especially of the works of Charles, Plücker, Salmon, Hesse, Cremona, and others, will greatly facilitate the study of geometry of position.

II. *Graphical Statics*. This science, brought to a high degree of development by the work of Culmann, can be studied with either of two objects in view:

a. As a part of applied mechanics, when the aim is to develop new methods of calculating mechanical phenomena, such as elastic deflections, deformations of beams and elastic arcs, higher grade moments, properties of certain structures, etc.; also to apply graphostatical methods to the determinations of stresses and calculation of parts of machinery. In this direction the works of Koechlin, W. Ritter, Du Bois, "Graphical Statics," Reulaux, and parts of Culmann are recommended for study. The German and French languages and courses 1, 2, 5, 6, 8, and 9 (Descriptive Geometry, Technical Mechanics, etc.) of the Department of Applied Mathematics of the Corcoran Scientific School are necessary, and 10 and 11 of the same Department are required.

b. As a part of Analytical Mechanics, based on geometry of position, the works of W. Ritter and Culmann will be more especially studied. The same prerequisite as for course a, with the addition of geometry of position, are necessary, and a thorough knowledge of advanced mathematics, especially determinants (Plücker's coördinates, etc.), will be put in requisition.

III. Investigations in analytical and applied mechanics, hydrodynamics, hydraulics, pneumatics, and strength of materials, based on the works of Weisbach, Ritter, Rankine, Bresse, etc. Courses 5, 6, 8, and 9 of the Department of Applied Mathematics of the Corcoran Scientific School, as well as the German and French languages, are required.

Other courses in various branches of applied mathematics, based on the studies scheduled in the Department of Applied Mathematics of the Corcoran Scientific School, can be arranged for on request.

**Graduate School of Electrical Engineering.****INSTRUCTOR LEWIS.**

Students having obtained the degree of B. S. in Electrical Engineering (Course III) in the Corcoran Scientific School or its equivalent will receive the degree of Electrical Engineer upon pursuing a course for one year in the Graduate School, embracing the following studies:

1. Advanced laboratory work.
2. A course of reading of engineering and electrical journals and weekly meetings for the discussion of engineering and electrical subjects.
3. Thesis work, embracing the complete project of an electrical plant for some municipal or industrial purpose, with drawings, designs, and calculations of the plant, machinery, electric devices, with a full description, report, estimate of cost, etc.

Concomitant studies in German and French, the Spanish language, higher mathematics, and advanced machine design, physics, and chemistry are recommended.

CATALOGUE  
OF  
THE COLUMBIAN COLLEGE  
PREPARATORY SCHOOL,  
WASHINGTON, D. C.,

FOR THE ACADEMIC YEAR. 1892-'93.

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FROM THE UNIVERSITY PRESS.

JUDD & DETWEILER,  
PRINTERS TO THE UNIVERSITY AND TO THE SCIENTIFIC SOCIETIES  
OF WASHINGTON.

1893.





# THE PREPARATORY SCHOOL.

## CALENDAR.

### CURRENT SCHOOL YEAR.

1892. Sept.	16-17.—Examination of new scholars.
Sept.	19.—The First Term commences.
Sept.	26.—Regular Marks begin.
Oct.	24.—First Monthly Report rendered.
Nov.	21.—Second Monthly Report rendered.
Nov.	24-25.—Thanksgiving Holidays.
Dec.	24.—Third Monthly Report rendered.
Dec.	25. } Christmas Holidays.
1893. Jan.	2. }
Jan.	23.—Fourth Monthly Report rendered.
Jan.	23-31.—Intermediate Examinations.
Feb.	1.—Marks of Second Term begin.
Feb.	22.—Washington's Birthday—holiday.
Feb.	27.—Fifth Monthly Report rendered.
March	27.—Sixth Monthly Report rendered.
March	31. } Good Friday and Easter Monday—holidays.
April	3. }
May	1.—Seventh Monthly Report rendered.
June	5.—Eighth Monthly Report rendered.
June	5-14.—Final Examinations.
June	16.—Public Closing Exercises.

### NEXT SCHOOL YEAR.

1893. Sept.	11-16.—Examination of new scholars.
Sept.	18.—The First Term commences.
Sept.	25.—Regular Marks begin.
Oct.	23.—First Monthly Report rendered.
Nov.	20.—Second Monthly Report rendered.
Nov.	30. } Thanksgiving Holidays.
Dec.	1. }
Dec.	23.—Third Monthly Report rendered.
Dec.	25. } Christmas Holidays.
1894. Jan.	2. }

1894.	Jan.	23.	—Fourth Monthly Report rendered.
	Jan.	23 31.	—Intermediate Examinations.
	Feb.	1.	Marks of Second Term begin.
	Feb.	22.	Washington's Birthday—holiday.
	March	5.	Fifth Monthly Report rendered.
	March	23 26.	—Good Friday and Easter Monday—holidays.
	April	9.	Sixth Monthly Report rendered.
	May	7.	Seventh Monthly Report rendered.
	June	4.	Eighth Monthly Report rendered.
	June	4-13.	—Final Examinations.
	June	15.	—Public Closing Exercises.



## THE PREPARATORY SCHOOL.

### PRINCIPAL:

ANDREW P. MONTAGUE, A. M., Ph. D.

### ASSOCIATE PRINCIPAL:

JOHN J. CHICKERING, A. M., LL. M.

### VICE-PRINCIPAL:

LEE D. LODGE, A. M., Ph. D.

### Corps of Instructors.

ANDREW P. MONTAGUE, A. M., Ph. D.,  
Instructor in Latin.

JOHN JAMESON CHICKERING, A. M., LL. M.,  
Instructor in Mathematics and Natural History.

HOWARD L. HODGKINS, A. M., Ph. D.,  
Instructor in Physics.

LEE D. LODGE, A. M., Ph. D.,  
Instructor in French and Greek.

E. HILTON JACKSON, A. B.,  
Instructor in English and Latin.

WOOLSEY ASPINWALL,  
Instructor in English.

HENRY R. PYNE,  
Instructor in Greek.

E. B. HAY, A. M., LL. M.,  
Instructor in Penmanship and Book-keeping.

### Design.

The Preparatory School of the Columbian College was established for the purpose of giving a thorough preparation for College or the technical school, and of fitting boys for the higher pursuits of business. In its new building, in its grades of study, and in its general management, the authorities and the instructors have kept steadily in view the growth of the National Capital and the progress of education in our country.

Very many of the boys of our city are compelled to forego a college education and to prepare themselves to enter at once, on leaving the School, some of the many avenues of self-support. This fact has been carefully considered, and a High-school course so arranged as to assist those who take it in making the best use of the time at their disposal.

The School has always been resorted to by a class of students who, being able to devote but a short time to study, avail themselves of the privilege of selecting from the programme of the several classes such studies as examination shows them qualified to pursue. While it is not intended to discourage from such a course those whose circumstances, rather than their desires, dictate their choice, it is urged as most important that all who can should pursue *the regular course* in one department or the other. An additional year of time is well bestowed in securing the fruits of systematic and thorough study, which often fail to mature because of the student's desire to reach his goal prematurely.

Under the terms of the "Admiral Powell Endowment," free scholarships will be given to a limited number of pupils who are preparing for admission to the United States Naval Academy at Annapolis, and who, at the end of their course of study, shall actually enter that institution.

### Discipline.

The School is conducted on Christian principles, both in its discipline and in its teaching; but no instruction is given and no influence exerted in favor of any peculiar denominational tenets.

In addition to daily recitations, examinations are held at the end of each term on all the studies of that term.

The graded scale of merit used in the School ranges from 0 to 100, and each student must reach a grade of 70 in order to be advanced with his class.

The progress of the scholar is stimulated by daily records, by monthly and term reports to parents, by promotions in his class, and by prizes.

### General Information.

One of the Principals will be at the School Building, No. 1335 H street northwest, from the seventh of September until the School begins, from 10 o'clock a. m. to 2 o'clock p. m., for the purpose of receiving new students and of answering inquiries concerning the school.

The number of scholars in the School at any one time is limited to one hundred, and students will be admitted to vacancies in this number according to the order of their registered application.

Applicants for admission to the Preparatory Class should have a good working knowledge of common and decimal fractions and of compound numbers, besides some preparation in English grammar and geography.

The School hours are from 9 o'clock a. m. to 2 15 o'clock p. m.

### Expenses.

For the scholastic year, including all expenses . . . . . \$80 00

All bills must be paid in advance, at the beginning of each half yearly term, to H. G. HODGKINS, A. B., Registrar of the School.

### Course of Study.

#### PREPARATORY CLASS.

##### *First Term.*

##### *Second Term*

Latin, 4 hours.	Latin, 4 hours.
Mathematics, 4 hours.	Grammar, Reading, and Spelling, 3 hours.
History—American, 3 hours.	Mathematics, 4 hours.
English—Grammar, Reading, and Spelling, 4 hours.	History—English, 3 hours.
	Geography—Political, 4 hours.

#### JUNIOR CLASS.

##### *First Term.*

##### *Second Term*

Latin, 4 hours.	Latin, 4 hours.
Greek (or Physiology), 4 hours.	Greek (or Botany), 4 hours.
Mathematics, 4 hours.	Mathematics, 4 hours.
English—Parsing and Analysis, Composition and Spelling, 4 hours.	Geography—Physical, 3 hours.
	Spelling and Reading, 2 hours.

#### MIDDLE CLASS.

##### *First Term.*

##### *Second Term.*

Latin, 4 hours.	Latin, 4 hours.
Greek (or American Literature, 2 hrs.; English Readings, 2 hrs.), 4 hours.	Greek (or American Literature, 2 hrs.; English Readings, 2 hrs.), 4 hours.
Mathematics, 4 hours.	Mathematics, 4 hours.
Civil Government, 1 hour.	History—Greek and Roman, 3 hours.
History—General, 4 hours.	English Readings, 1 hour.



## SENIOR CLASS.

*First Term.**Second Term.*

Latin, 4 hours.	Latin, 4 hours.
Greek (or Physics, 2 hrs. : Rhetoric, 2 hrs.), 4 hours.	Greek (or Physics, 2 hrs. : Rhetoric, 2 hrs.), 4 hours.
Mathematics, 4 hours.	Mathematics, 4 hours.
French, 3 hours.	French, 3 hours.
English Readings, 1 hour.	English Readings, 1 hour.

Penmanship, two hours a week for three years. Book-keeping, optional two hours a week. Composition and Declamation throughout the year for all classes.

The figures denote the number of hours of recitation in each study each week. Subjects in parenthesis can be substituted by those desiring an English or Scientific rather than a Classical course.

#### TEXT-BOOKS USED IN THE COLUMBIAN COLLEGE PREPARATORY SCHOOL.

Merrill's Word and Sentence Book.  
 Westlake's 3,000 Practice Words.  
 Hart's English Grammar and Analysis.  
 Gideon's Exercises in English.  
 Hart's Composition and Rhetoric.  
 Kingsley's Greek Heroes (Ginn & Co.).  
 Plutarch's Lives (Ginn & Co.).  
 Smyth's American Literature.  
 Standard English and American Authors.  
 Swinton's Grammar School Geography.  
 Houston's Physical Geography.  
 Montgomery's History of the United States.  
 Anderson's History of England.  
 Anderson's New General History.  
 Myer's History of Rome.  
 Fyffe's History of Greece.  
 Harkness's Latin Grammar (Standard Edition).  
 Harkness's Easy Latin Method.  
 Bennett's First Latin Exercise Book.  
 Harkness's Caesar.  
 Chase & Stuart's Vergil's Æneid.  
 Chase & Stuart's Cicero's Orations.

Chase & Stuart's Sallust.  
 Goodwin's Greek Grammar (Last Edition).  
 White's First Lessons in Greek (Last Edition).  
 Jones's Greek Prose Composition.  
 Crosby's or Kelsey's Xenophon's Anabasis.  
 Seymour's Homer's Iliad.  
 Edgren's French Grammar.  
 Super's French Reader.  
 Fontaine's Historiettes Modernes, Tome II.  
 Thomson's Complete Graded Arithmetic.  
 Well's Academic Algebra.  
 Well's Plane and Solid Geometry.  
 Avery's First Principles of Natural Philosophy.  
 How Plants Grow (Asa Gray).  
 Steele's 14 Weeks' Course in Physiology.  
 Foolscap Paper, Writing Tablets, and Pencils.

#### "The Boston Boys."

Several years ago the Preparatory School received from the great benefactor of the Columbian University, W. W. CORCORAN, LL. D., a fine painting, "The Boston Boys," by Henry Bacon. This beautiful ornament of the School hangs in the main room, and is a delight to the eye as well as an incentive to patriotism.

#### Annual Prizes.

The Regular Prizes of the School consist of First and Second Scholarship Medals in each class.

Gold Medals are also given to those Students who have been blameless in deportment and against whom there is no record of absence or tardiness during the entire session.

Through the liberality of the late Mr. Samuel Norment, President of the Central National Bank of Washington, the authorities of the School will award annually three prizes, \$25, \$20, and \$15, to the students whose scholarship, combined with irreproachable conduct, shall entitle them to be considered respectively the First, Second, and Third Honor Boys of the School.

#### Special Annual Prizes.

The following prizes are annually offered as rewards of special excellence in particular branches of study:

1. The Montague Gold Medal, for excellence in the Latin Language.

2. The Roome Gold Medal, for excellence in the Greek Language, awarded by Mrs. Lillian K. Roome.

3. The Townsend Gold Medal, for excellence in Elocution during the session.

4. The Gold Medal for excellence in Declamation at the Commencement, awarded by a committee selected by the Principal.

#### **Honor Roll—Session 1891-'92.**

##### **FOR HIGH GRADE OF SCHOLARSHIP.**

First Class—First Prize: A. Monell Sayre.

Second Class—First Prize: Charles M. Beall.

Second Prize: John H. Wynne.

Third Class—First Prize: Conrad M. Patten.

Second Prize: Reginald S. Davis.

Fourth Class—First Prize: Arthur P. Spear.

Second Prize: Morris Dow.

Montague Gold Medal in Latin—A. Monell Sayre.

Roome Gold Medal in Greek—A. Monell Sayre.

Lodge Gold Medal in French—A. Monell Sayre.

Hodgkins Gold Medal in Mathematics—Robert C. Wilkins.

Townsend Gold Medal for Elocution during the Session—E. A. Herr.

The Webster and the Depew Gold Medals for Declamation at the Commencement, presented by B. H. Warner, Esq., awarded by a Committee of Judges—first award, G. Emery Green; second award, Austin Herr, Jr.

Honorable mention of Conrad M. Patten, A. Monell Sayre, Philip Casen, Jr., John H. Wynne.

Hermesian Medal for the best Debater—Howard G. England.

Prizes founded by the late Samuel Norment, Esq., and now given by Mrs. Norment, awarded to the highest-honor boys of the School:

First Prize—\$25 in gold: A. Monell Sayre.

Second Prize—\$20 in gold: Conrad M. Patten.

Third Prize—\$15 in gold: Chas. M. Beall.

Gold Medals for Punctuality and Deportment:

Three years—A. Monell Sayre, John H. Wynne.

Two years—Reginald S. Davis, J. Russell Johnson.



One year--Chas. M. Beall, Joseph A. Burkart, Robert Farnham, Jr., W. Lowry Farnham, Thos. B. Gardner, G. Emery Green, G. R. Greenleaf, Austin Herr, Jr., Chas. G. Hoffman, Fred. C. Jones, Conrad M. Patten, Elliott C. Prentiss, J. L. Riggles, George Robinson, Wm. Oscar Roome, Jr., A. P. Spear, E. E. Spear, John W. Wright

Honorable mention for an average of 90 per cent. :

Chas. M. Beall, E. K. Broadus, Jos. A. Burkart, John H. Clapp, Reginald S. Davis, Lee S. Dorsey, Morris Dow, Howard G. England, G. R. Greenleaf, Wm. F. Mattingly, Jr., S. D. Moore, Conrad M. Patten, Wm. Oscar Roome, Jr., Arthur P. Spear, E. E. Spear, Wm. D. Sterrett, Robert C. Wilkins, John H. Wynne.

### Students in the Preparatory School.

Student.	Class.	Patron.
Charles M. Beall,	Senior,	Mr. Charles B. Beall.
Abbott Beard,	Junior,	Mr. Henry Beard.
James Wm. Beatty,	Middle,	Dr. H. W. Beatty.
Earl Biscoe,	Preparatory,	Mr. Henry L. Biscoe.
Frank Lee Biscoe,	Senior,	Mr. Henry L. Biscoe.
Wm. G. Bonie,	Senior,	Mr. Wm. V. Bonie.
Charles H. Bradley,	Middle,	Hon. A. C. Bradley.
Edmund K. Broadus,	Senior,	Mr. Thomas A. Broadus.
Evans Brown,	Preparatory,	Mr. A. B. Brown.
Harry S. Brown,	Senior,	Capt. J. G. Brown.
John Gillis Carr,	Senior,	Mrs. E. B. Carr.
David L. Chambers,	Middle,	Mr. D. A. Chambers.
Horace W. Chittenden,	Preparatory,	Mr. George B. Chittenden.
Claude Christman,	Junior,	Mr. P. H. Christman.
John H. Clapp,	Middle,	Mr. John M. Clapp.
Thatcher Clark,	Middle,	Mrs. E. Gordon Clark.
David Currier, Jr.,	Senior,	Mr. David Currier.
Elroy Curtis,	Middle,	Hon. Wm. E. Curtis.
G. N. Curtis,	Middle,	Hon. Wm. E. Curtis.
W. G. Dalby,	Senior,	Rev. I. N. Dalby.
Reginald S. Davis,	Middle,	Mr. Samuel T. Davis.
George J. Dempsey,	Middle,	Mr. Wm. H. Dempsey.
Taylor B. Dixon,	Senior,	Dr. W. S. Dixon.
Lee Dorsey,	Junior,	Mr. Wm. Dorsey.
Lloyd Dorsey,	Senior,	Mr. R. G. Dorsey.
Morris E. Dow,	Junior,	Mrs. Wm. Coppinger.
Charles T. Dudley,	Middle,	Mr. Wm. W. Dudley.

Student	Class	Patron
J. P. Evans,	Middle,	Prof. L. E. C. Colliere.
T. L. Evans,	Junior,	Mrs. L. Kerr.
Robert Farnham, Jr.,	Senior,	Dr. Robert Farnham.
W. L. Farnham,	Junior,	Dr. Robert Farnham.
G. Emery Greene,	Middle,	Hon. D. A. Green.
Harry S. Greene,	Senior,	Rev. Samuel H. Greene.
David A. Greenlees,	Senior,	Mr. Archibald Greenlees.
Wm. M. Hallam,	Middle,	Mr. Orrin B. Hallam.
Quiraf Harlan,	Junior,	Mr. Burns Harlan.
Austin Herr, Jr.,	Senior,	Mr. Austin Herr.
Clarence H. Herr,	Preparatory,	Mr. Austin Herr.
Raymond Higgins,	Senior,	Mr. Frank E. Higgins.
Wm. E. Holcomb,	Senior,	Mr. C. W. Holcomb.
C. H. Holmead,	Middle,	Mr. C. H. Holmead.
Scott J. Ingram,	Middle,	Mrs. M. M. Ingram.
Thomas G. Jones, Jr.,	Senior,	Mr. Thomas G. Jones.
Frederick B. Kerr,	Middle,	Mr. James Kerr.
Smith Lansdale,	Middle,	Mr. P. M. Smith.
Clifton Laughlin,	Senior,	Mr. M. J. Laughlin.
H. C. Logan,	Middle,	Mrs. Logan.
F. H. Mattingly,	Middle,	Mrs. Mary F. Harwood.
Donald McDonald,	Senior,	Mr. H. Bowyer McDonald.
F. F. McElhone,	Middle,	Mrs. M. M. McElhone.
Oscar Meehlin,	Preparatory,	Mr. F. S. Meehlin.
Armando de Mendonça,	Junior,	Señor Salvador de Mendonça.
Arthur C. Morgan,	Junior,	Mr. R. W. Morgan.
Frank R. Needham,	Middle,	Mr. Charles W. Needham.
Harry Norment,	Middle,	Mrs. M. E. Norment.
Willie H. Parker,	Preparatory,	Mrs. W. H. Parker.
Conrad M. Patten,	Middle,	Mr. John D. Patten.
S. C. Peele,	Middle,	Mr. S. J. Peele.
John L. Riggles,	Senior,	Mr. J. Richard Riggles.
Wm. W. Riley,	Middle,	Mr. Thomas R. Riley.
George Robinson,	Junior,	Mrs. L. V. Robinson.
Albert Romero,	Senior,	Señor Cayetano Romero.
Wm. O. Roome, Jr.,	Senior,	Mr. Wm. O. Roome.
Charles R. Schmidt,	Senior,	Miss Flora Schmidt.
Alvan Skiles,	Junior,	Mrs. R. W. Skiles.
Granville Smith,	Senior,	Mrs. Isabel P. Smith.
H. E. Smith,	Senior,	Mrs. B. F. Smith.
Arthur Spear,	Junior,	Gen. Ellis Spear.

Student.	Class	Patron.
Edwin Ellis Spear,	Senior,	Gen. Ellis Spear.
Douglas D. B. Sterrett,	Preparatory,	Rev. J. Macbride Sterrett.
Henry H. D. Sterrett.	Middle,	Rev. J. Macbride Sterrett.
Robert Sterrett,	Middle,	Rev. J. Macbride Sterrett.
Wm. Dent Sterrett,	Junior,	Rev. J. Macbride Sterrett.
Garden C. Stuart.	Senior,	Rev. A. R. Stuart.
Joseph Tyssowski,	Middle,	Mr. Joseph Tyssowski.
Dennis D. Walker.	Middle,	Mr. John W. Walker.
Charles H. Weaver,	Senior,	Mrs. A. M. Weaver.
Louis Weaver,	Senior,	Mrs. A. M. Weaver.
Jacob T. Webb.	Middle,	Mr. George W. Webb.
James W. White, Jr.,	Middle,	Mr. James W. White.
F. M. Wise, Jr.,	Middle,	Lieut. Com. F. M. Wise.
Wm. G. Woodford,	Senior,	Mr. Evelyn S. Woodford.
John H. Wynne.	Senior,	Mr. Louis B. Wynne.

Students in the Preparatory School ..... 83

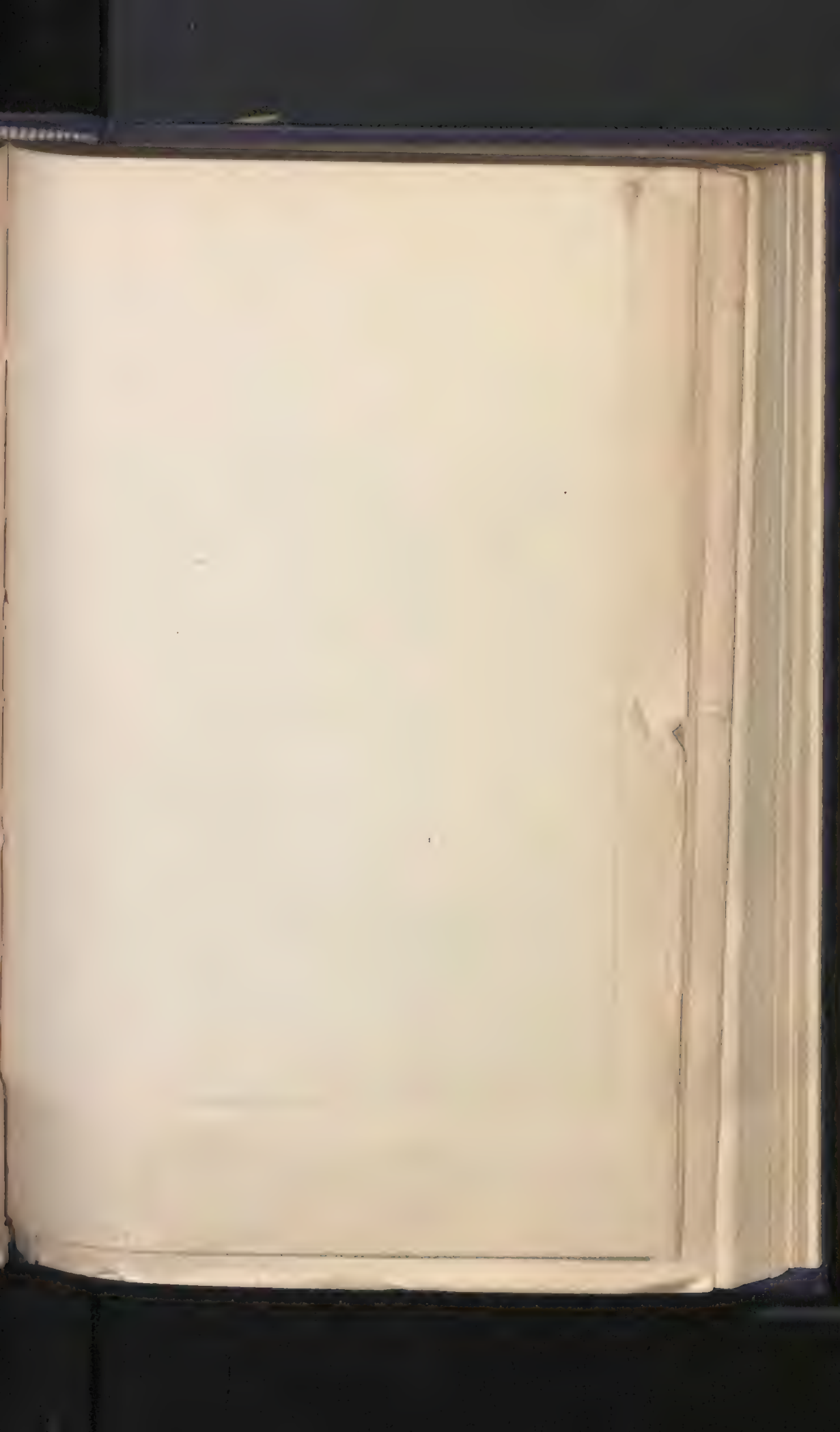
#### Graduates.

Frank L. Biscoe,	English, French.
Gilbert Bloss,	English.
Edmund K. Broadus,	English.
Joseph A. Burkart,	Mathematics, French.
Wm. W. Comstock,	English, Latin, Mathematics, French.
Howard G. England,	English, Mathematics.
Thomas B. Gardner,	English.
G. R. Greenleaf,	English, Latin, Mathematics, French.
Austin Herr, Jr.,	English, French.
Charles G. Hoffman,	English, French.
Ered. C. Jones,	English, Mathematics.
J. Russell Johnson,	English, French.
Pearson F. Marsh,	Latin, Mathematics, French.
Wm. F. Mattingly, Jr.,	English, Latin, Greek.
Salvador D. Moore,	English, Mathematics.
Brainard W. Parker,	English.
Elliott C. Prentiss,	English, Mathematics, French.
Walter P. Redington,	Latin.
B. Oldrin Salter,	English, French.
A. Monell Sayre,	English, Latin, Greek, Mathematics, French.



J. McB. Sterrett, Jr.,	English, Latin, Greek, Mathematics.
Paul E. Taussig.	Mathematics.
Brainard H. Warner, Jr.,	English, Mathematics, French.
Robert C. Wilkins.	English, Latin, Mathematics, French.
Charles F. Wilson,	English. French.
Wm. G. Woodford,	English, French.
John W. Wright.	English, French.

Diplomas of Graduation will be given hereafter to those only who have successfully completed the course in at least three branches.







[Printed, not published, till approved by the Board.]

*The Honorable and Reverend the Board of Trustees of the Columbian University:*

The corporation of the University at the last annual meeting enacted that it should be "the duty of the members of the Faculty in the Columbian College to devise schemes of graduate studies in their respective departments, and to report the same to the Board of Trustees during the coming scholastic year, with a specification of the term through which such studies shall extend, tuition fees, &c., and that the same duty be enjoined on the Faculties of the Medical School and of the Corcoran Scientific School."

The status of the Law School under this head had been already determined by the corporation.

I have the honor to report that the Faculties of all these departments entered upon the work thus enjoined with great cheerfulness and diligence. The Medical Faculty, however, was at once arrested in its plans by the fact that, as yet, it has no laboratory for advanced chemical, biological, or bacteriological investigation. Without such laboratories it would be impossible to conduct graduate studies in medicine. With such laboratory the Faculty would enter on the work, not only with alacrity, but with enthusiasm.

The Faculties of the College and of the Corcoran Scientific School, after long and careful deliberations, have matured plans for graduate study which will insure a large addition to the teaching force of the University and a large addition to its annual courses of instruction in certain branches of higher learning. As these deliberations have been continued down almost to the date of this meeting, I can hope at present to do no more than to submit to your consideration the results which have been reached in these earnest and protracted vigils. The difficulties of the problem set before these Faculties will readily occur to you. They were called, if possible, to enlist eminent

teachers in the service of the University, and to do so without proffering any adequate compensation worthy of the high educational work to which these teachers were invited. I am happy to announce that our appeals have in every case met with the most gratifying response from the distinguished scholars and men of science resident in this city to whom we have addressed ourselves. The success which has waited on our efforts and the gratitude which is due from the University to the generous friends of science and culture who are to reinforce its Faculties, in both the undergraduate and graduate departments, will be easily inferred by you from the following summary of the recommendations with which I must here content myself. For the present I can but exchange felicitations with you on a forward movement so fraught with interest to the cause of the higher learning at the National Capital, and so rich in promise to the renown of our University.

I respectfully recommend the following additions to the faculty of the University:

General A. W. GREELEY, U. S. A.,  
 Professor of Geography.  
 Professor ASAPH HALL, LL. D.,  
 Professor of Higher Mathematics.  
 Professor FRANK H. BIGELOW, A. M., &c.,  
 Professor of Higher Mathematics.  
 Professor ALEXANDER S. CHRISTIE, LL. M.,  
 Professor of Higher Mathematics.  
 Professor F. W. CLARKE, S. B.,  
 Professor of Mineral Chemistry.  
 Professor HARVEY W. WILEY, M. D., Ph. D.,  
 Professor of Agricultural Chemistry.  
 EDWIN E. HARRIS, A. M.,  
 Assistant in Chemistry.  
 THOS. M. CHATARD, Ph. D.,  
 Lecturer on Chemical Engineering.  
 JOSIAH PIERCE, JR., A. M.,  
 Lecturer on Topographical Surveying.  
 CHARLES W. STILES, Ph. D.,  
 Instructor in Histology.

G. E. CURTIS, A. M.,

Assistant in Meteorology.

CARLE WHITEHEAD, B. M.,

Assistant in Assaying.

FRANK L. AYER, C. E.,

Assistant in Field Engineering.

HENRY R. PYNE,

Assistant in Latin.

M. M. RAMSEY,

Assistant in Spanish.

HERBERT L. RICE,

Assistant in Astronomy.

E. L. THURSTON,

Assistant in Engineering.

GEORGE N. CHANDLER,

Assistant in Mineralogy and Geology.

*Resolved: That the President of the University shall be authorized to appoint temporary assistants and junior assistants for the term of one year, or less, upon the nomination of the heads of any school or department.*

<sup>provis</sup> until such time as their names can be reported to the Board of Trustees for its ratification in connection with such temporary appointment.

I respectfully recommend the following additions to the degrees to be conferred by the University:

Electrical Engineer and Doctor of Philosophy, to be conferred on members of the graduate school after such examinations and under such regulations as shall be established from time to time



teachers in the service of the University, and to do so without proffering any adequate compensation worthy of the high educational work to which these teachers were invited. I am happy to announce that our appeals have in every case met with the most gratifying response from the distinguished scholars and men of science resident in this city to whom we have addressed ourselves. The success which has waited on our efforts and the gratitude which is due from the University to the generous friends of science and culture who are to reinforce its Faculties, in both the undergraduate and graduate departments, will be easily inferred by you from the following summary of the recommendations with which I must here content myself. For the present I can but exchange felicitations with you on a forward movement so fraught with interest to the cause of the higher learning at the National Capital, and so rich in promise to the renown of our University.

I respectfully recommend the following additions to the fac-

GEORGE DE LARSEN, A. M.,

Assistant in Chemistry.

THOS. M. CHATARD, Ph. D.,

Lecturer on Chemical Engineering.

JOSIAH PIERCE, JR., A. M.,

Lecturer on Topographical Surveying.

CHARLES W. STILES, Ph. D.,

Instructor in Histology.

G. E. CURTIS, A. M.,  
 Assistant in Meteorology.  
 CARROLL WHITEHEAD, B. M.,  
 Assistant in Assaying.  
 FRANK L. AYERHILL, C. E.,  
 Assistant in Field Engineering.  
 HENRY R. PYNE,  
 Assistant in Latin.  
 M. M. RAMSEY,  
 Assistant in Spanish.  
 HERBERT L. RICE,  
 Assistant in Astronomy.  
 E. L. THURSTON,  
 Assistant in Engineering.  
 GEORGE N. CHANDLER,  
 Assistant in Mineralogy and Geology.  
 J. S. JOHNSON,  
 Assistant in Applied Mathematics.  
 J. S. LEMON, Ph. D.,  
 Lecturer on Psycho-Physics.  
 CYRUS ADLER, Ph. D.,  
 Lecturer on Oriental History.  
 Señor ANTONIO M. SOELLDO,  
 Professor of Spanish.

I respectfully recommend that it shall hereafter be competent for the heads of schools or departments to appoint temporary assistant, who shall hold such appointment for the term of one year, at the discretion of such head, provided that the said appointees be named to the President of the Faculty for his approval until such time as their names can be reported to the Board of Trustees for its ratification in connection with such temporary appointment.

I respectfully recommend the following additions to the degrees to be conferred by the University:

Electrical Engineer and Doctor of Philosophy, to be conferred on members of the graduate school after such examinations and under such regulations as shall be established from time to time

by the Faculty of said school, with the approval of the trustees or corporation.

I further recommend that no graduate student be regarded as a candidate for any advanced degree until he shall have been formally admitted to such candidature by a vote of the Faculty.

That persons holding the degree of A. B. from reputable institutions be admitted to enter as candidates for the degree of A. M. and those holding the degree of S. B. be admitted as candidates for the degree of M. S.

That candidates for a Master's degree, to be eligible, shall pass one year at this University in the advanced study of at least one appointed subject; and shall sustain a satisfactory examination and present a satisfactory thesis on such subject.

That persons holding the degree of S. B. in engineering courses or their equivalent from reputable institutions shall be qualified to enter as candidates for the degree of C. E. and E. E.

That such candidates, to be eligible, shall pass one year in advanced study of engineering subjects in this University, shall sustain a satisfactory examination thereon and shall present a satisfactory thesis.

That the matriculation fee of candidates for Masters' or Engineering degrees shall be ten dollars (\$10.00) and the annual fee shall be the regular fee of the school in which the candidate may enter.

I further recommend that persons holding degrees of Master in Science or Art or their equivalent from institutions of repute shall be deemed qualified to enter as candidates for the degree of Ph. D.

That such candidates for the degree of Ph. D. shall undertake three topics for advanced study.

That such candidates, before being admitted to their candidature, shall pass a satisfactory examination in French and German, shall pay an examination fee of \$5 for the examination in each of these tongues, and shall pay a matriculation fee of ten dollars (\$10.00).

That such candidates shall pass two years in study at this University, shall sustain a satisfactory examination upon three subjects which they may have elected, to wit: one major subject and two collateral minor subjects, shall present and print theses



embodying the results of original research in their major subject, shall defend such theses before a board of experts and shall accompany the said theses with an exhaustive bibliography.

I further recommend that the annual fee of candidates for a Doctor's degree be ninety dollars (\$90.00) where no laboratory courses are taken, and where laboratory courses are taken that the fee shall be in excess of this sum according to regulations prescribed by the Faculty with the approval of the corporation.

That the matriculation fee be remitted in favor of candidates for the degree of Ph. D. who shall have taken the Master's degree in this University.

I respectfully recommend that the Professors and assistants whose names are subjoined be appointed as "The Board of Directors of Graduate Studies" in the University, and that this Board be charged with the admission of students into the Graduate School and with all matters pertaining to the conduct and regulation of studies, examinations, &c., in the Graduate School, subject to the approval of the trustees or corporation:

James C. Welling, LL. D., President, and Professor of History.  
 Charles E. Munroe, S. B., Dean, and Professor of Chemistry.  
 The Rev. A. J. Huntington, D. D., Professor of Greek.  
 The Rev. Samuel M. Shute, D. D., Professor of English.  
 Theodore N. Gill, M. D., Ph. D., Professor of Zoölogy.  
 Otis T. Mason, A. M., Ph. D., Lecturer on Anthropology.  
 Cleveland Abbe, A. M., Ph. D., Professor of Meteorology.  
 D. Kerfoot Shute, A. B., M. D., Professor of Anatomy.  
 J. Howard Gore, B. S., Ph. D., Professor of Geology.  
 Lee D. Lodge, A. M., Ph. D., Professor of French.  
 Hermann Schönfeld, Ph. D., Professor of German.  
 The Rev. J. Macbride Sterrett, D. D., Professor of Philosophy.  
 The Rev. Frank H. Bigelow, A. M., Professor of Higher Mathematics.

I further recommend that the fund accruing from matriculation fees paid by candidates for graduate degrees be held as a reserve fund from which to pay necessary expenditures of the Dean of the Graduate School for clerk hire in conducting necessary correspondence of the graduate department.

That for expenditures thus incurred the Dean make requisition according to the necessity of the case, and account for such expenditures with appropriate vouchers.

I further recommend that the same rule which now obtains for the distribution and apportionment of fees in the Corcoran Scientific School shall also obtain in the administration of the Graduate School.

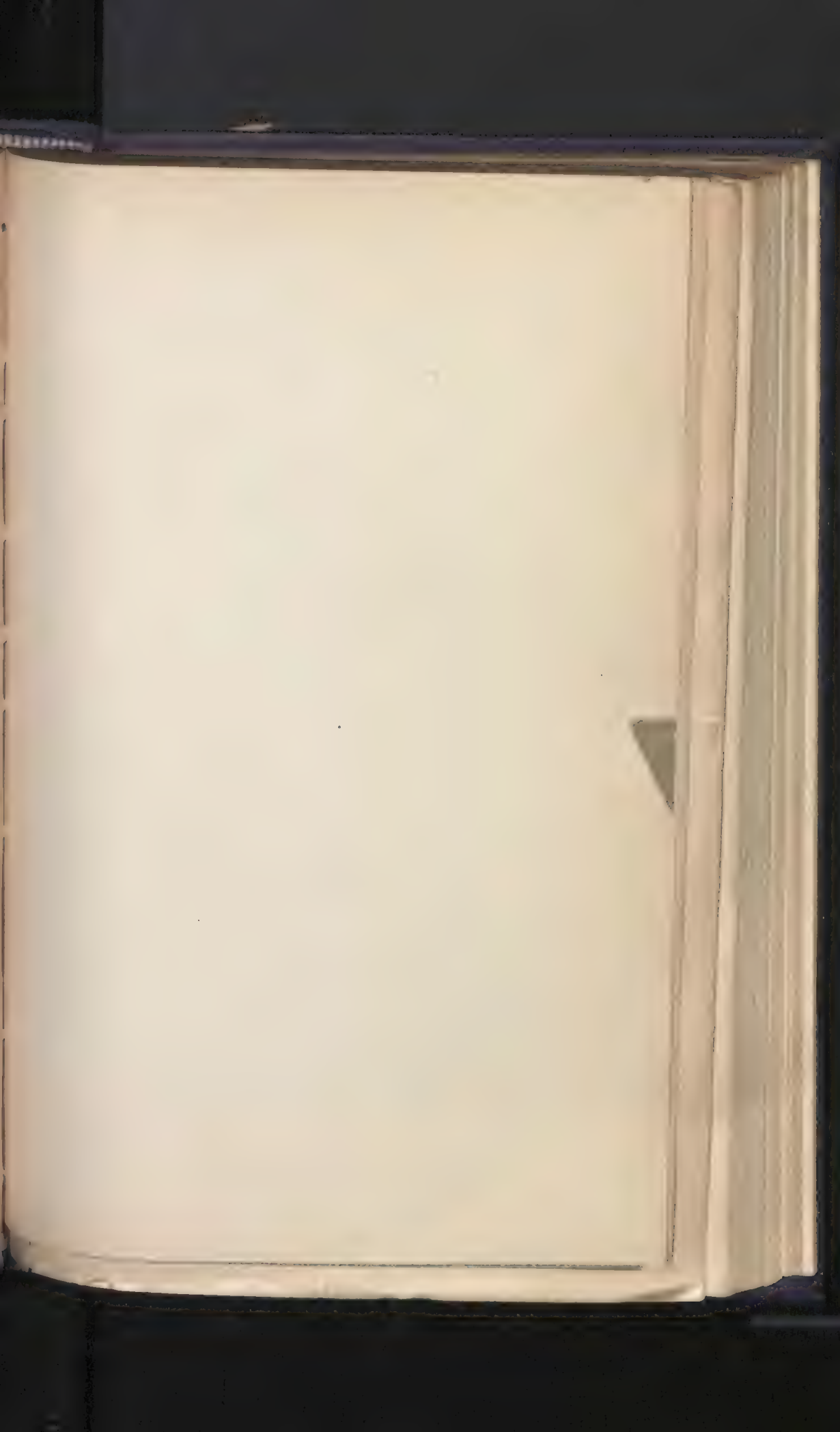
As the existing rule of the corporation requires that the catalogue of the University shall be annually published, under the direction of the President of the University, I respectfully recommend that the President of the University be authorized to incorporate in the catalogue of the current year such of the foregoing additions, changes, and modifications as shall be approved by the Board, and as shall be appropriate for public announcement in the forthcoming edition of the catalogue.

Your thanks are specially due to Prof. Charles E. Munroe, Dean of the Corcoran Scientific School, for invaluable aid in organizing the graduate courses above projected and in enlarging the undergraduate courses of the Scientific School. I wish also to confess my obligations under this head to all my colleagues in all the Faculties which have participated in this new movement.

All which is respectfully submitted.

JAMES C. WELLING,  
*President.*

THE COLUMBIAN UNIVERSITY,  
WASHINGTON, *March 14, 1893.*







THE COLUMBIAN UNIVERSITY.

PRESIDENT'S

ANNUAL REPORT

FOR THE

Year 1892-1893.

WASHINGTON, D. C.:  
JUDD & DETWEILER, PRINTERS.  
1893.





*The Honorable and Reverend the Overseers and  
Trustees of the Columbian University:*

I have the honor herewith to submit my report on the operations of the University in all its departments during the scholastic year 1892-93.

At the threshold of this report I cannot omit to exchange congratulations with you on the final establishment of our School of Graduate Studies, destined hereafter to compose not only an integral part, but also the crowning complement of our University System. The particular steps which have been taken in the realization of this forward movement were authorized by the corporation at its last annual meeting, when the following resolution was adopted:

*"Resolved, That it shall be the duty of the members of the Faculty in the Columbian College to devise schemes of graduate studies in their respective departments, and to report the same to the Board of Trustees during the coming scholastic year, with a specification of the term through which such studies shall extend, tuition fees, &c., and that the same duty be enjoined on the Faculties of the Medical School and of the Concorum Scientific School."*

It is, however, only just to say that the seminal idea of such a school for the propagation of advanced learning dates almost from the origin of the institution. As early as the year 1822, Luther Rice, who deserves to be held in lasting honor as the "Founder" of the Columbian College, had projected an "annex" to the College, to be called the "Philosophical Department," in which special provision should be made for the cultivation of "advanced studies" beyond the limits of the ordinary college curriculum. This project was formally approved in 1823, when a circular was addressed by the Board of Trustees to all military and naval officers of the United States, invoking their assistance in collecting illustrative materials and specimens for the use of the institution. The national character of the College and the "university" range of its proposed studies were thus emphasized at the beginning of the enterprise.

In further pursuit of this plan the Trustees, in 1824, addressed a memorial to Congress soliciting national aid in the endowment of the College. In support of their plea the Board of Trustees invited the attention of Congress to the fact that though the College had been "originated by the Baptist General Convention," it was meant to be of "national locality, consideration, and benefit," and was founded "on the most liberal principles." In evidence of this latter fact they cited the terms of the seventh clause in the charter, declaring that "persons of every religious denomination shall be capable of being elected Trustees: nor shall any person, either as President, professor, tutor, or pupil, be refused admittance into said College, or denied any of the privileges, immunities, or advantages thereof for or on account of his sentiments in matters of religion."

These projects were nipped in the bud by the financial embarrassments which overtook the College in 1827, and which for a time threatened its very existence: but they were never abandoned. Even under the storm and stress of our civil war the Board of Trustees proceeded to enlarge their plans for professional education by organizing a Law School, in addition to the Medical School, which latter dates from the year 1821. In the year 1871 the Board of Trustees announced that it was their purpose "to increase the number of these schools, so as to represent every department of learning needful to the formation of a University as broad in its endowments, in its plans of instruction, and its field of duty as the wants of the great people in whose centre and capital it will be placed."

I need not say that from the first I have been in hearty sympathy with these plans of the authorities, and, in evidence of the fact, I may recall the following words of my Inaugural Address:

"It is not enough for educators, in the higher walks of their art, to preserve and propagate the elements of knowledge; but they are bound so to impart these elements, in all their fulness and vitalizing power, as to create the conditions of a growing advancement in learning and civilization. To accomplish these great objects the teacher must have equal regard to the number and quality of the subjects taught, and to the method, and order, and spirit of his instructions. 'Teachers,' says Bacon, 'are not ordained for transitory uses, but for the progression of the sciences—*ad sufficientem sobolem scientiæ in sæcula.*' \* \* \*

"And what advantages are ours, both for gaining and diffusing the blessings of highest culture? For here, at our very doors, we have the Smithsonian Institution, perpetually working, under the guidance of its illustrious Secretary [then the late Professor Joseph Henry], on the boundaries of knowledge in all departments, thus literally fulfilling the will of its founder and exemplifying the highest function of a university, by increasing and diffusing knowledge among men; and here is the National Library of Congress, with its well filled alcoves, open alike to teachers and scholars for purposes of literary or scientific research; and here, for the study of technology, are the accumulated fruits of American inventive genius stored in the Patent Office; and here, for the progressive scientific study of astronomy, is the National Observatory; and here is that no less learned than useful school of practical geometers connected with the Coast Survey; and here are the gardens which, under the keeping of the Agricultural Department, invite to the study of botany, not in dry herbaria and in dryer tomes, but amid flowery walks, through which Shenstone would have loved to ramble by the side of Linnaeus or Hasselquist; and here, for the student of law, are the highest seats of our American Themis, as here, for the votaries of the healing art, are the priceless treasures of the Medical Museum, without any rival in the world among institutions of its kind; and here, by the munificence of him who stands at the head of our governing board, is the Corcoran Gallery of the Fine Arts, to keep alive the love of beauty in the soul of man."

In 1872 the corporation of the institution was reconstructed and was made a self-perpetuating body, composed of Trustees who shall be inhabitants of the District of Columbia and of Overseers who may be residents in any part of the country. In 1873 the institution was by act of Congress erected into the Columbian University, and all restrictions previously placed on the amount of its annual income were removed. Notwithstanding the financial paralysis which fell on the country in 1873, the corporation, through the munificence of Mr. Corcoran, succeeded in raising what is known as the "Corcoran Endowment Fund"—a fund which, though small, continues to be the solid foundation on which the University rests to-day for support in meeting the running expenses of its administration. In 1879, with a view to the enlargement of its educational scope by placing itself abreast with the educational facilities of the National Capital, the corporation resolved to concentrate all its departments "in the heart of Washington." In 1882 the present University



site was purchased. In 1884 the plan of the "Corcoran Scientific School" was formally approved, and the school was opened in October of that year. In 1887 the Dental School was established in connection with the Medical School. Meanwhile redoubled efforts were put forth by the corporation to attract the attention of benefactors of learning to the unparalleled facilities offered by the city of Washington as the site and seat of a great *University* in the highest sense of that term. Much of consideration and of sympathy was given to these representations by men of "light and leading" in all parts of the land. The evidence of the fact has been placed before you in my former annual reports; but no large sums have as yet been placed at the command of the University for the fulfillment of its designs. In full faith that such sums will be ultimately furnished by the enlightened friends of learning, the corporation at its last annual meeting resolved to give public proof of its own belief in the "unparalleled facilities" offered in Washington for the promotion of university learning by proceeding *at once* to organize its proposed "School of Graduate Studies." The result is before you in a Faculty qualified to give graduate instruction in English, in Greek, in Latin, in French, in German, in Mathematics, in History, in Speculative Philosophy, in the Philosophy of History, in Solar Physics, in Mathematical Physics, in Theoretical Astronomy, in Astro-Physics, in General Chemistry, in Mineral Chemistry, in Agricultural Chemistry, in Bio-Chemistry, in Zoölogy, in Histology, in Anthropology, in Osteology and Artistic Anatomy, in Meteorology, in Geology, in Civil Engineering, and in Electrical Engineering. It does not need to be said that such an achievement could not have been effected without the generous coöperation of eminent scientific men, resident in Washington, who gave their cheerful support to our plans; while the enterprise would have been chimerical in any city less opulent than Washington in all the "facilities" which promote original research and advanced study in nearly every department of literature, art, and science. For the high grade of these advanced studies and for the honorable reputation of the teachers enrolled in the new Faculty, I need but refer you to the pages of the Annual Catalogue.

The measures taken in the organization of the Graduate School, since the date of your last annual meeting, have imposed great labor on the Faculties who were charged with concerting the necessary preliminary arrangements. The result of these deliberations was communicated to the Board of Trustees on the 14th of March last, when the provisional organization of the Graduate School was reported for approval. As the organization of the new school was made mandatory by the corporation at the last annual meeting, the Board of Trustees was already empowered to carry out the instructions of the corporation under this head, but the result of these deliberations was reported to the overseers resident in Baltimore at an informal meeting invited by the President of the University for the purpose of making these communications. Similar communications were made in writing to the overseers resident in New York. But it will now be necessary that the corporation should give its formal sanction and approval to so much of these proceedings as shall be found to have been taken in pursuance of the instructions given at the last annual meeting.

The additions made to the Faculties, as authorized by the Board of Trustees at the date of the special meeting in March, were as follows:

GENERAL A. W. GREELY, U. S. A.,  
Professor of Geography.

PROFESSOR ASAPH HALL, LL. D.,  
Professor of Mathematical Astronomy.

PROFESSOR FRANK H. BIGELOW, A. M., &c.,  
Professor of Solar Physics.

PROFESSOR ALEXANDER S. CHRISTIE, LL. M.,  
Professor of Mathematical Physics.

PROFESSOR F. W. CLARKE, S. B.,  
Professor of Mineral Chemistry.

PROFESSOR HARVEY W. WILEY, M. D., PH. D.,  
Professor of Agricultural Chemistry.

EDWIN E. HARRIS, A. M.,  
Assistant in Chemistry.

THOS. M. CHATARD, PH. D.,  
Lecturer on Chemical Engineering.

JOSIAH PIERCE, JR., A. M.,  
Lecturer on Topographical Surveying.

CHARLES W. STILES, PH. D.,  
 Instructor in Histology.  
 G. E. CURTIS, A. M.,  
 Assistant in Meteorology.  
 CABELL WHITEHEAD, B. M.,  
 Assistant in Assaying.  
 FRANK L. AVERILL, C. E.,  
 Assistant in Field Engineering.  
 HENRY R. PYNE,  
 Assistant in Latin.  
 M. M. RAMSEY,  
 Assistant in Spanish.  
 HERBERT L. RICE,  
 Assistant in Astronomy.  
 E. L. THURSTON,  
 Assistant in Engineering.  
 GEORGE N. CHANDLER,  
 Assistant in Mineralogy and Geology.  
 J. S. JOHNSON,  
 Assistant in Applied Mathematics.  
 J. S. LEMON, PH. D.,  
 Lecturer on Psycho-Physics.  
 CYRUS ADLER, PH. D.,  
 Lecturer on Oriental History.  
 SEÑOR ANTONIO M. SOTELDO, LL. D.,  
 Professor of Spanish.

Professor Asaph Hall having been compelled to decline his appointment as professor of Theoretical Astronomy because of his contemplated absence from Washington during the next year, it is respectfully recommended that Professor Edgar Frisby, of the United States Naval Observatory, be elected in his stead. With this change and with other changes and additions, it is recommended that the Faculty of the Graduate School be constituted as follows:

JAMES C. WELLING, LL. D., PRESIDENT,  
 Professor of History.  
 CHARLES E. MUNROE, S. B., DEAN,  
 Professor of Chemistry.  
 THE REV. ADONIRAM J. HUNTINGTON, D. D.,  
 Professor of Greek.  
 THE REV. SAMUEL M. SHUTE, D. D.,  
 Professor of English.



- ANDREW P. MONTAGUE, A. M., PH. D.,  
Professor of Latin.
- J. HOWARD GORE, B. S., PH. D.,  
Professor of Mathematics.
- LEE D. LODGE, A. M., PH. D.,  
Professor of French.
- D. KERFOOT SHUTE, A. B., M. D.,  
Professor of Anatomy.
- FRANCIS R. FAVA, JR., C. E.,  
Professor of Civil Engineering.
- THEODORE N. GILL, M. D., PH. D.,  
Professor of Zoology.
- OTIS T. MASON, A. M., PH. D.,  
Lecturer on Anthropology.
- CLEVELAND ABBE, A. M., PH. D.,  
Professor of Meteorology.
- HERMANN SCHÖNFELD, PH. D.,  
Professor of German.
- THE REV. J. MACBRIDE STERRETT, D. D.,  
Professor of Philosophy.
- EDGAR FRISBY, A. M., U. S. N.,  
Professor of Astronomy.
- WILLIAM C. WINLOCK, A. B.,  
Professor of Astronomy.
- WILLIAM T. HARRIS, LL. D.,  
Professor of Philosophy.
- EMIL A. DE SCHWEINITZ, PH. D.,  
Professor of Bio-Chemistry.
- F. W. CLARKE, S. B.,  
Professor of Mineral Chemistry.
- HARVEY W. WILEY, A. M., M. D., PH. D.,  
Professor of Agricultural Chemistry.
- THE REV. FRANK H. BIGELOW, A. M.,  
Professor of Solar Physics.
- ALEXANDER S. CHRISTIE, A. M., LL. M.,  
Professor of Mathematical Physics.
- GEORGE P. MERRILL, PH. D.,  
Professor of Geology.
- EXUM PERCY LEWIS, B. S.,  
Junior Professor of Electrical Engineering.

In further organization of the School of Graduate Studies, the Board of Trustees report the following rules and regulations for the confirmation of the corporation, it being premised that certain typographical errors and omissions are here corrected:

# RULES AND REGULATIONS OF GRADUATE SCHOOL.

The President of the Faculties is authorized to appoint temporary assistants and junior assistants for the term of one year or less, upon the nomination of the head of any school or department, until such time as their names can be reported to the Board of Trustees, at the next ensuing quarterly meeting, for its ratification in connection with such temporary appointment.

The teachers whose names are subjoined shall be appointed "The Board of Directors of Graduate Studies" in the University, and this Board shall be charged with the admission of students into the Graduate School and with all matters pertaining to the conduct and regulation of studies, examinations, &c., in the Graduate School, subject to the approval of the trustees or corporation:

James C. Welling, LL. D., President, and Professor of History.  
 Charles E. Munroe, S. B., Dean, and Professor of Chemistry.  
 The Rev. A. J. Huntington, D. D., Professor of Greek.  
 Andrew P. Montague, A. M., Ph. D., Professor of Latin.  
 The Rev. Samuel M. Shute, D. D., Professor of English.  
 Theodore N. Gill, M. D., Ph. D., Professor of Zoology.  
 Otis T. Mason, A. M., Ph. D., Lecturer on Anthropology.  
 Cleveland Abbe, A. M., Ph. D., Professor of Meteorology.  
 D. Kerfoot Shute, A. B., M. D., Professor of Anatomy.  
 J. Howard Gore, B. S., Ph. D., Professor of Geodesy.  
 Lee D. Lodge, A. M., Ph. D., Professor of French.  
 Hermann Schönfeld, Ph. D., Professor of German.  
 The Rev. J. Macbride Sterrett, D. D., Professor of Philosophy.  
 The Rev. Frank H. Bigelow, A. M., Professor of Higher Mathematics.

The degree of Electrical Engineer and of Doctor of Philosophy shall be conferred on members of the Graduate School, after such examinations and under such regulations as shall be established from time to time by the Board of Directors of said school, with the approval of the trustees or corporation.

No graduate student shall be regarded as a candidate for any advanced degree until he shall have been formally admitted to such candidature by a vote of the Board of Directors.

Persons holding the degree of A. B. from reputable institutions shall be admitted to enter as candidates for the degree of A. M. and those holding the degree of S. B. be admitted as candidates for the degree of M. S.

Candidates for a Master's degree, to be eligible, shall pass one year at this University in the advanced study of at least one appointed subject.

and shall sustain a satisfactory examination and present a satisfactory thesis on such subject.

Persons holding the degree of S. B. in engineering courses or their equivalent from reputable institutions shall be qualified to enter as candidates for the degree of C. E. and E. E.

Such candidates, to be eligible, shall pass one year in advanced study of engineering subjects in this University, shall sustain a satisfactory examination thereon, and shall present a satisfactory thesis.

The matriculation fee of candidates for Masters' or Engineering degrees shall be ten dollars (\$10.00) and the annual fee shall be the regular fee of the school in which the candidate may enter.

Persons holding degrees of Master in Science or Art or their equivalent from institutions of repute shall be deemed qualified to offer themselves as candidates for the degree of Ph. D.

Such candidates for the degree of Ph. D. shall undertake three topics for advanced study.

Such candidates, before being admitted to their candidature, shall pass a satisfactory examination in French and German, shall pay an examination fee of \$5 for the examination in each of these tongues, and shall pay a matriculation fee of ten dollars (\$10.00).

Such candidates shall pass two years in study at this University, shall sustain a satisfactory examination upon three subjects, which they may have elected, to wit, one major subject and two collateral minor subjects; shall present and print theses embodying the results of original research in their major subject; shall defend such theses before a board of experts, and shall accompany the said theses with an exhaustive bibliography.

The annual fee of candidates for a Doctor's degree shall be ninety dollars (\$90.00) where no laboratory courses are taken, and where laboratory courses are taken the fee shall be in excess of this sum, according to regulations prescribed by the Faculty with the approval of the corporation.

The matriculation fee shall be remitted in favor of candidates for the degree of Ph. D. who shall have taken the Master's degree in this University.

The fund accruing from matriculation fees paid by candidates for graduate degrees shall be held as a reserve fund from which to pay necessary expenditures of the Dean of the Graduate School for clerk hire in conducting necessary correspondence of the graduate department.

For expenditures thus incurred the Dean shall make requisition according to the necessity of the case, and account for such expenditures with appropriate vouchers.

The same rule which now obtains for the distribution and apportionment of fees in the Corcoran Scientific School shall also obtain in the administration of the Graduate School.



It gives me pleasure to state that all the Faculties of the University entered into this scheme of advanced instruction with unanimity and cheerfulness. The Medical Faculty, though most eager to join with the other Faculties in this advance movement, was arrested in its plans by the fact that as yet it has no laboratory for advanced chemical, biological, or bacteriological investigation. Without such laboratories it would be impossible to conduct graduate studies in medicine. With such laboratory the Faculty would enter on the work, not only with alacrity, but with enthusiasm.

I most cordially invoke for this Faculty such aid as you can give in providing them with the necessary equipment under these heads. Such equipment is required alike for undergraduate and for graduate instruction in medicine.

It will be observed that nothing has yet been said in regard to the organization of the School of Comparative Jurisprudence, as already authorized by the corporation. The policy of establishing such a school has been neither forgotten nor abandoned.

At the last meeting of the corporation of the University it was formally ordained --

"1. That a School of Comparative Jurisprudence, according to the plan already approved by the Corporation, be established as an integral part of our University system, and that the said School be formally organized during the coming year, with a view to opening it at the beginning of the scholastic year 1893-'94.

"2. That the President of the Faculties be authorized, in his projected sojourn in Europe, to visit the leading universities in which jurisprudence is taught according to the comparative method, and to collect all possible information under this head for the information of the Board."

In pursuit of the instruction contained in the latter of these resolutions, I visited London in the months of July and August last for the purpose of conferring with T. E. Scrutton, Esq., of the London bar, well known for his original researches in the origins of the common law, and with Sir Frederick Pollock, the distinguished professor of comparative jurisprudence in Oxford University. Both of these gentlemen received me with great courtesy, and both expressed the deepest interest in the establishment of such a school at Washington, where the reasons and the facilities for its establishment were admitted to be obvious.

As a result of these conferences in London the way was opened for similar conferences which I was to have with Rodolphe Dareste, with Max Leclercq, with V. Bogisic, and others, in Paris; with Professor Seradini in Pisa, with Professor Pacchioni in Modena, and with Francesco Ruffini in Turin, and especially with Professor Paul Vinogradoff, of the Imperial University of Moscow.

You already know that I was prevented from conferring with these masters of comparative jurisprudence. It is a source of lasting regret, as well for its cause as for its consequence, that the death of Professor Frisvold recalled me to Washington at the very threshold of my researches under this head; but the knowledge which I have gained was very valuable, and I shall be glad to place it at your command in the further prosecution of the enterprise.

As it is designed that the lectures of the School of Comparative Jurisprudence shall be held in the mornings or in the afternoons of each day, it is easy to see that certain of these lectures might be opened to students of the College proper. It would be difficult to estimate the stimulating influence which philosophical studies in this direction would exercise on the curriculum of the College in its senior courses of philosophy; and portions of these lectures in the case of College students who propose to study law would be preparatory to such professional study.

The lectures of the school would be open to all who are prepared to profit by them, but the degrees of the school, whether that of "Doctor of Philosophy" or "Doctor of Laws," would be reserved for those who, on the basis of an academic training and with at least a reading knowledge of the French and German tongues, should reach a certain required proficiency, as tested by examination, in the special studies of the school. Hence it is easy to infer the reflex influence which the School of Comparative Jurisprudence would also exert on the study of French and German, as also of Latin and Greek in the College and Corcoran Scientific School. Linguistic study in the undergraduate classes would be vitalized by the living uses to which it would be newly put in the graduate classes of the University.

The University Catalogue for the current year contains a brief description of the scope and object of the projected school. That

announcement has excited a wide public interest and has drawn inquiries from many quarters. I find room but for two from opposite sections of the Union:

New York, April 18, 1893.

Pres't JAMES C. WELLING.

DEAR SIR: I received your catalogue, and in perusing it was very much interested in the account of the newly projected "School of Comparative Jurisprudence," and for my own part I would say that I would gladly spend several years longer in order to gain a knowledge of the law as a science and not merely as a professional study. I would therefore like to be informed on three matters: Firstly. To become a candidate for the degree of Doctor of Philosophy in law, is said candidate required to be a college graduate—i. e., one who has the degree in Arts, Science, Philosophy, or Letters? Secondly. What, in your opinion, will be the requirements for admission as a candidate for the aforementioned degree? Thirdly. How long will be the course? By answering these queries you will confer a favor upon

Yours truly,

HENRY WALDMAN.

No. 168 Rivington street, New York city.

WICHITA, KANSAS, April 21, 1893.

DEAR SIR: The catalogue was received yesterday, for which you will please accept many thanks. I have heard of your Law School as being one of the foremost in the country, and it seems to me the proposed course for Ph. D. in jurisprudence stamps it as such. I would be glad to learn of the course when inaugurated.

Most respectfully yours,

J. S. CARSON,  
Principal Park School.

More than two hundred years ago the advantages of such studies in law were perceived by philosophical writers on jurisprudence. Lord Stair, of Scotland, the author of the "Institutes," etc., held the following language:

"I did resolve to raise my thoughts to a distinct consideration of the fountains and principles of the peculiar laws of all nations. \* \* \* No man can be a knowing lawyer in any nation who hath not well pondered and digested in his mind the common law of the world, from whence the interpretations, extensions, and limitations of all statutes and customs must be brought."

The anthropological studies of the present day, in facilitating investigations of this kind, have, at the same time, made such investigations a necessity for the advanced study of law.



Referring to the regular operations of the University in its several departments during the last scholastic year, I have to report that a good degree of prosperity has waited upon us, notwithstanding the fact that the outgoing year of each administration of the Federal Government is expected to work some reduction in our local patronage. The statistics of the separate schools are as follows :

Students in the Preparatory School	74
Students in the Arts and Sciences	236
Students of Medicine	161
Students of Dentistry	46
Students of Law	348
Total	865

A few weeks before the opening of the Preparatory School it was discovered that the health of its accomplished and efficient principal, Professor Andrew P. Montague, would not be sufficiently restored to justify him, under the advice of his physician, in resuming his duties in connection with the school during the whole of the year. It became necessary, therefore, to make immediate provision for meeting the emergency thus created, and Mr. J. J. Chickering, a graduate of Amherst College and an experienced teacher at the head of one of the Public Grammar Schools of Washington, was, on my nomination, appointed by the Board of Trustees Associate Principal, with the understanding that in the absence of Professor Montague he would take the direction of the school. Since Professor Montague's return to Washington he has given such attention to the operations of the school as was found practicable, and I am glad to report that he hopes to be able to resume his place at its head at the beginning of the next scholastic year. This arrangement will necessitate some readjustment of teachers and of teaching courses in the school.

The sudden death of Professor Fristoe, soon after the date of your last annual meeting, called the Board of Trustees, in the midst of the sorrow created by that great loss, to take immediate measures for meeting the exigency. Professor Fristoe's duties were manifold. He was not only the teacher of chemistry in the College, in the Medical School, in the School of Dentistry,

and in the Corcoran Scientific School, but was also the Dean of the last-named Department. He brought to the discharge of all his duties a zeal which never flagged and a benignity of temper which sustained him under every burden. Appropriate public exercises were held, under the auspices of the University, on the 16th of December last, in tribute to his memory and in grateful recollection of his long and faithful services.

It soon became apparent that in the new direction which was to be impressed on the operations of the University, especially under the head of graduate work, it would become necessary to make a redistribution of the chemical and administrative duties which had previously been performed by Professor Fristoe. After much study of the problem, after taking the advice of my colleagues in the Medical School, in the College, and in the Corcoran Scientific School, and, I may add, after conferring with eminent chemical experts in Washington and elsewhere, I brought to the consideration of the Board of Trustees the following suggestions:

That Professor Charles Edward Munroe, S. B., Chief Chemist of the United States Navy, should be appointed Professor of Chemistry in the College and in the Corcoran Scientific School, and that he should also be the Dean of the Corcoran Scientific School:

That Professor Emil A. de Schweinitz, Ph. D., of the United States Department of Agriculture, should be appointed Professor of Chemistry and Toxicology in the Medical and Dental Schools:

And that Professor Henry Carrington Bolton, Ph. D., of New York, should be appointed non-resident Lecturer on the History and Philosophy of Chemistry.

These nominations were approved by the Board of Trustees at a meeting held on the 28th of September, and I now invite for that approval, and for the arrangements which were then concerted in the matter of salaries, the confirmation of the corporation. In the science of General Chemistry Professor Munroe has no superior in the United States, and in some specialties he is without a rival. His administrative faculty is also of the first order. The original researches of Professor De Schweinitz in the Department of Agriculture sufficiently attest his learning and his ability, while the honorable record of Professor Bolton, alike

because of his learning as a Chemical teacher and because of the unique range of his special studies in Chemical bibliography, has made his name well known among chemists throughout the world.

I should not omit to state that in the month of March last Dr. Bolton delivered nine lectures under the auspices of the University on the History of Chemistry from Bible times down to the present day. The lectures were opened to the public and were attended by large and appreciative audiences.

There has been a slight decline in the number of students in the College during the last year, but there has been a great increase in the number of the lecture courses. The chair of Physics, previously merged with that of Chemistry, has been erected into a distinct School, while the School of Philosophy has been divided between Dr. Sterrett and the President of the University. The accession of Dr. Sterrett to the chair of Philosophy has lent a new stimulus to the special studies of this School. A Society of Philosophical Inquiry, formed under his presidency, has been organized in connection with the University and meets weekly for the discussion of fundamental problems in speculative thought as distinct from scientific investigation.

It is respectfully recommended that the title of Professor Howard L. Hodgkins shall hereafter be Professor of Physics and Adjunct Professor of Mathematics.

I need but call your attention to the enlargement and improvement of the Lecture courses in the Corcoran Scientific School. The attendance here has been in excess of that of former years. Through the energy of the new Dean important additions have also been made to the illustrative apparatus of the School; but the School still pines for the want of the necessary implements of education. With an addition to its class-room facilities the number of its pupils could easily be doubled—in many departments the number could be quadrupled. Professor Harry King having resigned the chair of Drawing in the school, I respectfully recommend that he be appointed Emeritus Professor of Drawing, in grateful recognition of his long and faithful service, and that Josiah Pierce, C. E., be appointed Professor of Drawing and of Applied Mathematics in his stead.

I may specially call your attention under this head to the



wants of the Department of Drawing and of Applied Mathematics. In this Department, besides making provision for free-hand drawing, modelling, mechanical drawing, architectural drawing, and topographic drawing, it is proposed to teach the elements of coördinate geometry by object lessons in projection, and by the development of lines and surfaces from their equations. The learned teacher, Professor Josiah Pierce, Jr., a graduate of Emmanuel College, Cambridge (England), simply awaits the necessary appropriations to undertake this promising enterprise.

The Medical and the Dental Schools have been remarkably prosperous during the last year. Both schools have been called to mourn the loss of the learned and faithful Professor of Physiology, the late Dr. William Lee, who died on the 3d of March last. Dr. Lee was a native of Massachusetts, but by long residence had established for himself a distinguished place in the medical faculty of Washington. He had an inquiring mind and was addicted to original research in the cause of medical science.

At the Medical and Dental Commencement, held on the 11th of May last, thirty-two graduates received the degree of Doctor of Medicine and four the degree of Doctor of Dental Surgery. As has been already said, the Medical School needs a chemical and bacteriological laboratory as an indispensable appliance in the administration of its lecture courses and as the indispensable prerequisite of that original research on which its Faculty are waiting to enter.

The Law School still maintains its supremacy among the law schools of Washington and, in the learning and distinction of its professors, yields to none in the whole country. Mr. Justice Harlan has been absent during the greater part of the year in attendance on the "Fur-Seal Arbitration" at Paris. You are already aware that he is a member of the high tribunal charged with this international adjudication. His professorial duties have, during his absence, been most acceptably performed by his colleague in the Law Faculty and on the bench of the Supreme Court, Mr. Justice Brewer.

The arrangement made by the corporation at its last annual meeting for the improvement of legal instruction by providing a special chair for the conduct of daily "quizzes," in review of the

text-book lessons and of the lectures, has proved invaluable, and the administration of the chair by Professor William G. Johnson has been worthy of the highest commendation. By this catechetical analysis the student is called to reproduce and to expound with clearness and promptitude the principles of law which he has learned both from the text-books and the lectures. In this way, too, the principles of law are impressed on the memory of students, while difficult points are explained anew in view of any confusion which may be brought to light by question and answer.

I regret to announce that Professor Henry E. Davis, LL. M., has resigned his chair as Professor of Common Law Practice in the Graduate School of Law. This is a source of profound regret to his colleagues in the Law Faculty and to all the students of the Law School. Mr. Davis is not only learned in the Common Law and in its sources, but is also a ripe scholar in that comparative jurisprudence which is coming more and more to give form and direction to all advanced studies in law. I am glad to announce that he still consents to deliver his annual course of lectures on the History of Law.

I respectfully recommend the adoption of the following regulation:

Annual examinations for degrees in the Law School shall be closed three weeks before the date of the Law School Commencement, and the names of successful candidates for degrees shall be reported to the President of the Faculty two weeks before the date of the said Commencement.

The students in our Law School are now so numerous that the analysis of the written examinations is a work of time as well as labor. The names of the successful candidates should be reported two weeks before the date of the Commencement in order to afford a sufficient interval for the Commencement preparations. As the annual report of the President of the Faculties has to be printed and sent to each member of the corporation one week in advance of the annual meeting, and as the annual budget has to be prepared at the same season, you will see at once the embarrassment under which he labors in preparing such reports while the materials which compose them are in process of formation, and while he is himself in the midst of

manifold executive duties connected with the Annual Commencements of the several departments.

I respectfully suggest that the annual budget adopted at the Annual Meeting in June, on the basis of estimates which are partly conjectural, shall be subject to revision at an adjourned meeting of the corporation to be held on or about the first of January in each year.

The following degrees have been conferred by the University in its several departments at the close of the scholastic year 1892-'93. I am unable to recite these degrees in connection with an account of the Commencements, because in the case of all the departments except the Medical and the Dental Schools this report must go to press before the Commencements are held:

In the Medical School:	
Doctors of Medicine .....	32
In the Dental School:	
Doctors of Dental Surgery .....	1
In the Corcoran Scientific School:	
Civil Engineer .....	1
Bachelor of Science .....	6
In the Columbian College:	
Master of Arts .....	2
Bachelor of Arts .....	4
Bachelor of Science .....	5
In the Law School:	
Master of Laws .....	58
Bachelor of Laws .....	98

The University during the last year made a beginning in the work of publishing the results of original research and of independent inquiry conducted under its auspices by its Faculty or students. Other papers are awaiting publication so soon as a Publication Fund shall be provided. This field is exceedingly rich in its promise, for the harvest is great and the laborers at our command are not few.

In compliance with the mandate of the corporation, I addressed a memorial to Congress at its last session, praying for an amendment to our charter in the matter of the conditions pre-



scribed for eligibility to the offices of Secretary and Treasurer of the University. Mr. Mattingly, the counsel of the University, kindly drafted the amendment, and, as passed, it is as follows:

AN ACT to amend the act of March 3, 1873, for the relief of the Columbian University, in the District of Columbia.

*Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the act approved March 3, 1873, entitled "An act supplemental to the act of February 9, 1821, incorporating the Columbian College, in the District of Columbia," be, and the same hereby is, so modified that hereafter the treasurer and secretary of said corporation, the Columbian University, need not be one person nor a member of the trustees of said corporation, but the trustees and overseers of said corporation, in convention assembled, shall annually elect by ballot two suitable persons from among the trustees or not, as they may deem proper, one to be treasurer and the other secretary of said corporation and of the Board of Trustees.*

SEC. 2. That in case of the death, resignation, or inability to act of either the treasurer or secretary, the Board of Trustees shall have power to fill the vacancy until his successor is duly elected.

Approved January 14, 1893.

As the reasons which induced me to undertake for a time the duties of the office of Acting Secretary and Treasurer, in addition to my other cares, are removed by this amendment, I now beg leave to resign that appointment. The active duties of the office have been performed, and most faithfully performed, during the last year by Mr. Robert H. Martin the Financial Agent. Under his administration the business interests of the University have been promoted and its accounts have been systematically kept.

The amendment to the charter requires that the election of Treasurer and of Secretary shall be "by ballot," as in the case of all other officers of the corporation. I trust that I shall not trespass on the proprieties of this regulation by formally bringing the name of Mr. Martin to your consideration in connection with the office of Treasurer. Under the terms of the amendment the duties of the office of Treasurer cannot be longer joined with those of Secretary. It will remain for the corporation to elect, "by ballot," some suitable person to perform the duties of the latter office.

I should perhaps call your attention to the fact that the last Congress, after reciting that large libraries and large collections illustrative of the arts and sciences have been gathered at the National Capital "to promote research and the diffusion of knowledge," proceeded by a joint resolution approved April 12, 1892, to place these unequalled facilities at the command of institutions of higher education in Washington. The joint resolution was not needed to prompt the willing minds of the directors and custodians placed in charge of these treasures, but it affords gratifying evidence of the friendly disposition of the Government, both legislative and executive, under this head. The terms of the resolution are as follows :

*"Resolved by the Senate and House of Representatives of the United States of America in Congress assembled, That the facilities for research and illustration in the following and any other governmental collections now existing or hereafter to be established in the city of Washington for the promotion of knowledge shall be accessible, under such rules and restrictions as the officers in charge of each collection may prescribe, subject to such authority as is now or may hereafter be permitted by law, to the scientific investigators and to students of any institution of higher education now incorporated or hereafter to be incorporated under the laws of Congress or of the District of Columbia, to wit :*

1. Of the Library of Congress.
2. Of the National Museum.
3. Of the Patent Office.
4. Of the Bureau of Education.
5. Of the Bureau of Ethnology.
6. Of the Army Medical Museum.
7. Of the Department of Agriculture.
8. Of the Fish Commission.
9. Of the Botanic Gardens.
10. Of the Coast and Geodetic Survey.
11. Of the Geological Survey.
12. Of the Naval Observatory."

I invite your attention to the enlarged catalogue of the University in its current edition, and to the more compact form in which it has been issued. Its present form is that of most catalogues of the larger universities in the country, and seemed to be required by the increased contents of this annual publication. The change was made with the approval of the Academic and

Scientific Faculties, under whose general direction the annual catalogue is compiled.

At each new advance which the University has made in pursuance of its broader plans of education, the corporation has given a public entertainment of some kind for the purpose of giving publicity to its designs. On the 24th of March, 1873, a grand banquet was given at Wormley's Hotel in celebration of the new charter granted by Congress and in promotion of "the new University movement." The banquet was attended by President Grant and members of his Cabinet; by distinguished members of the Diplomatic Corps; by officers of the Army and Navy, and by eminent invited guests from different parts of the country. In responding to the first toast, "The Columbian University," the President of the Faculties explained at length the reason and ground of the new movement "considered in its relation to Washington as a great educational centre"; the Attorney-General of the United States (the Hon. George H. Williams) spoke for "the Law side of the University"; Professor Joseph Henry, secretary of the Smithsonian Institution, spoke for "Science," avowing his hearty sympathy with the plans of the Columbian University; Charles Astor Bristed spoke for "the Classics"; the Hon. William Beach Lawrence, LL. D., D. C. L., for "the Gladsome Light of Jurisprudence," and the Marquis de Noailles, the French minister, for the "Communion of Scholars in the Republic of Letters."

On the 11th of March, 1874, an entertainment was given under the auspices of the University in announcement of the approaching occupation of the new University building and the opening of the Corcoran Scientific School. At this celebration addresses were made by the President of the University; by the Hon. John D. Long, of Massachusetts; by the Hon. J. Randolph Tucker, of Virginia, and by the Hon. John M. Gregory and Professor Simon Newcomb, of Washington.

As the erection of the School of Graduate Studies is the most signal event that has ever occurred in our history and marks the culmination of an upward movement which has now run through many years, it seemed proper to give some public notification of "the new departure." After conference had with members of the Board of Trustees, and after authority received



from the Executive Committee of the University, it was determined to give a public reception to the new Faculty in the University building, and to invite to that reception the friends of the University in different parts of the country, the clergy and leading citizens of Washington, and all the Commissioners in attendance on the General Assembly of the Presbyterian Church. The reception was given on the 25th of May, while the General Assembly was in session, because, if given at that date, it would enable the University to pay a deserved tribute of respect to a large company of Christian scholars coming from every part of the land, and because it enabled these strangers to get an interior view of the great educational resources which are at our command. As many as fifteen hundred guests were present.

I need not remind you of the loss which the University has sustained in the death of our beloved friend and colleague, the late James H. Cuthbert, D. D., the vice-president of the corporation and the chairman of its Executive Committee. He fell asleep at Aiken, S. C., on the 6th of May. But for the uncertainty in which I was left for several days concerning the circumstances of his death and the date and place of his burial, I should have summoned you in extraordinary session to take appropriate action in testimony of your affectionate regard for one whom you could but love while he was living and whom you can but mourn now that he is no more. The sweet serenity of his death was in perfect keeping with the sweet serenity of his life.

All which is respectfully submitted.

JAMES C. WELLING, *President.*

THE COLUMBIAN UNIVERSITY, *June 10, 1893.*

# REPORT OF DEAN OF CORCORAN SCIENTIFIC SCHOOL.

THE COLUMBIAN UNIVERSITY, DEPARTMENT OF CHEMISTRY.

WASHINGTON, D. C., June 8, 1893.

Dr. J. C. WELLING,

*President of the Columbian University.*

SIR: I have the honor to render the following report on the condition of the Corcoran Scientific School during the academic year 1892-1893:

Owing to the death of my distinguished and lamented predecessor, Dr. E. T. Fristoe, I was called to the Professorship in Chemistry and the Deanship of the School in November, 1892. As the term work of the School was already well advanced on my arrival, and as there had necessarily been some uncertainty as to when and to what extent instruction in chemistry would be given, the attendance in this department of the School has been smaller than might have been the case had there been no interruption in the course, but I feel warranted in saying that in all other respects the year ending June, 1893, has proved the most successful one in the history of the School. This opinion is founded on the inspection and comparison of the following data:

## 1.—Number of Students in Corcoran Scientific School.

1885	26
1886	71
1887	78
1888	84
1889	82
1890	109
1891	110
1892	139
1893	174

## 2.—Receipts for Tuition.

1885	\$3,569 35
1886	5,390 34
1887	4,113 25
1888	3,488 04
1889	4,016 49
1890	3,596 38
1891	4,386 37
1892	5,920 98
1893	7,132 04

These are the material evidences of success; but there are many other evidences which are even more encouraging, and chief among them is the number of students entering for degrees. I am unable to obtain the data bearing upon this point for previous years, so that no exact comparison can be instituted; but from the traditions of the School and by inference from the past reports of the Dean, I learn that the number is considerably larger than in any previous year in our history. The numbers are shown in the following table:

<i>Candidates for Degrees.</i>	
Doctor of Philosophy .....	3
Master of Science .....	2
Civil Engineer .....	19
Electrical Engineer .....	8
Bachelor of Science .....	14
Total .....	46

This increase may be partly accounted for by the increased value placed on our diplomas and partly by the fact that it is the present policy of the Faculty to encourage students on entering the School to become candidates for degrees, as this action not only inspires them with a more definite aim, but induces them to persist in the prosecution of their studies when they are tempted to abandon them. Whatever the cause of this increase may be, the consequence is that it removes some of the elements of uncertainty attending the administration of the School, since we may anticipate that the attendance in a subsequent year will not fall below a certain minimum, and we can therefore make our estimates for supplies and our provisions for instruction upon some definite basis.

Another advance which has been made is in the organization of several courses of study leading to the degree of Bachelor of Science, there being in all eight such courses established, viz: General Science, Civil Engineering, Electrical Engineering, Analytical Chemistry, Physical Chemistry, Meteorology, Geography, and Geology. This is not the first time that an attempt has been made to introduce systematic courses of correlated and interdependent studies into the School, but it is believed that the obstacles which have prevented the complete success of this plan in the past have been surmounted by increasing the number of instructors and of departments and by developing and extending the studies within the departments. Acting on this belief, we have increased the number of instructors from 17 to 43, while the number of departments has been increased from 12 to 18, the newly created subdepartment of Spanish not being included in this enumeration. The number of courses of studies within the departments has been increased from 30 to 116. A large part of the newly appointed instructors are young men, many of them having been graduated at this School, and each of them having been selected for



his special attainments in and aptitude for teaching the particular subject confided to his charge. A good proportion of these men have been engaged in the work during the year just ended, and they have brought to their work a zeal, an enthusiasm, and a belief in the School which cannot fail to lead to success.

Besides the establishment of these special courses, the time required for the attainment of the Bachelor degree has been extended to four years, and for the Engineering degrees to five years. By these changes we bring the standard of the School up to that of any and above that of most institutions conferring these degrees.

The work of the year, as in past years, has, however, been principally devoted to the special students. The following table shows how this work has been distributed among the various departments:

*Students in Different Departments.*

Mechanical Drawing	41
Topographical Drawing	19
Analytical Chemistry	11
General Chemistry	15
Assaying	3
Electricity	20
Physies	16
Astronomy	2
Botany	2
Anthropology	2
Zoology	2
English	38
French	31
German	35
Latin	7
Geology	12
Mineralogy	4
Civil Engineering	28
Architectural Drawing	28
Mathematics	86
Philosophy	8

It will be observed that the largest number of students are in attendance on the Mathematical Department, and this will probably continue to be the case, since mathematics is common to all courses and required in every year for six of the courses of study leading to the Bachelor's degree. The work performed by the instructors is not, however, to be measured by the relative number of pupils taught, the time required for preparation and the labor involved in teaching being practically the same for a class of one pupil as for a class of twenty pupils, while a lecture course may be given to as large a class as the room will accommodate.

Under our present system, which seems to be the only practical one which will meet the conditions of the case, while no instructor receives an adequate salary, the majority receive a trivial sum, which is in no sense an equivalent for the work done, though their studies constitute important and essential links in the whole system. The only means by which this injustice can be remedied is through the securing of endowments, and I do not hesitate to urge that active and unremitting efforts be made to secure such endowments, for I do not know of any place where the necessary sum of money could be used to greater advantage, or where it would yield so certain, so immediate, and so large a return.

I have been connected with several of our older and richer institutions of learning and have had opportunities for knowing what they are doing with the wealth at their command, and I have consequently been amazed to learn that it has been possible here to do the work this School has done, to maintain a Faculty of the size, character, and attainments which the Faculty of this School possesses, and to provide the materials and appliances necessary for instruction on a total annual income which at its maximum has never equalled the annual salary of a single professor in Columbia College, and which is equal to but one third of the sum expended in the education of each cadet who is graduated from the United States Naval Academy. Of course, such results have been achieved here only through the self-sacrificing devotion of the members of the Faculty, and it would seem to be sufficient only to lay the record of this School and the educational needs of this community before some generous patron of education to secure the moderate sum required; for the record of the School is a guarantee that his benefaction will be wisely administered and will accomplish great good.

We have during the past year received the following gifts:

A Crawford gold mill, presented by the Mechanical Gold Extractor Company;

A Lundell electric motor, presented by the Interior Conduit and Insulation Company, and

A set of chemical charts, presented by Dr. H. Carrington Bolton.

While we have been promised—

An electric dynamo by the General Electric Company;

A large collection of very valuable organic dyestuffs by the Treasury Department,

And certain sums of money (amounting to \$500) by several persons whose names cannot yet be announced, for the purchase of books for special departments.

I desire here to record our sincere and earnest thanks to the generous givers of these valuable gifts, and to express the hope that this is but the beginning of the donations which are to be made to the equipment of the school.

Very respectfully submitted,

CHARLES E. MUNROE,  
*Dean Cooperan Scientific School.*







CATALOGUE

THE COLUMBIAN COLLEGE  
PREPARATORY SCHOOL,  
WASHINGTON, D. C.,

FOR THE ACADEMIC YEAR, 1892-'93.

FROM THE UNIVERSITY PRESS.

JUDD & DETWEILER,  
PRINTERS TO THE UNIVERSITY AND TO THE SCIENTIFIC SOCIETIES  
OF WASHINGTON.  
1893.

# The Columbian University,

WASHINGTON, D. C.

Collegiate, Scientific, Professional, and Graduate Instruction is given in the Columbian University in six departments: The COLUMBIAN COLLEGE, the NATIONAL MEDICAL COLLEGE, the SCHOOL OF DENTISTRY, the COLUMBIAN UNIVERSITY LAW SCHOOL, the CORCORAN SCIENTIFIC SCHOOL, and the SCHOOL OF GRADUATE STUDIES.

Besides the foregoing higher departments, the University has under its management a Preparatory School, in which students are prepared for College, for the Military Academy at West Point, or for the Naval Academy at Annapolis.

For catalogues address The Registrar of the University.

For other information address The President of the University.



CATALOGUE  
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# THE PREPARATORY SCHOOL.

## CALENDAR.

### CURRENT SCHOOL YEAR.

1892. Sept.	16-17.—Examination of new scholars.
Sept.	19.—The First Term commences.
Sept.	26.—Regular Marks begin.
Oct.	24.—First Monthly Report rendered.
Nov.	21.—Second Monthly Report rendered.
Nov.	24-25.—Thanksgiving Holidays.
Dec.	24.—Third Monthly Report rendered.
Dec.	25. } Christmas Holidays.
1893. Jan.	2. }
Jan.	23.—Fourth Monthly Report rendered.
Jan.	23-31.—Intermediate Examinations.
Feb.	1.—Marks of Second Term begin.
Feb.	22.—Washington's Birthday—holiday.
Feb.	27.—Fifth Monthly Report rendered.
March	27.—Sixth Monthly Report rendered.
March	31. } Good Friday and Easter Monday—holidays.
April	3. }
May	1.—Seventh Monthly Report rendered.
June	5.—Eighth Monthly Report rendered.
June	5-14.—Final Examinations.
June	16.—Public Closing Exercises.

### NEXT SCHOOL YEAR.

1893. Sept.	11-16.—Examination of new scholars.
Sept.	18.—The First Term commences.
Sept.	25.—Regular Marks begin.
Oct.	23.—First Monthly Report rendered.
Nov.	20.—Second Monthly Report rendered.
Nov.	30. } Thanksgiving Holidays.
Dec.	1. }
Dec.	23.—Third Monthly Report rendered.
Dec.	25. } Christmas Holidays.
1894. Jan.	2. }



1894.	Jan.	23.	—Fourth Monthly Report rendered.
	Jan.	23-31.	—Intermediate Examinations.
	Feb.	1.	—Marks of Second Term begin.
	Feb.	22.	—Washington's Birthday—holiday.
	March	5.	—Fifth Monthly Report rendered.
	March	23-26.	—Good Friday and Easter Monday—holidays.
	April	9.	—Sixth Monthly Report rendered.
	May	7.	—Seventh Monthly Report rendered.
	June	4.	—Eighth Monthly Report rendered.
	June	4-13.	—Final Examinations.
	June	15.	—Public Closing Exercises.

## THE PREPARATORY SCHOOL.

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### PRINCIPAL:

ANDREW P. MONTAGUE, A. M., Ph. D.

### ASSOCIATE PRINCIPAL:

JOHN J. CHICKERING, A. M., LL. M.

### VICE-PRINCIPAL:

LEE D. LODGE, A. M., Ph. D.

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### Corps of Instructors.

ANDREW P. MONTAGUE, A. M., Ph. D.,

Instructor in Latin.

JOHN JAMESON CHICKERING, A. M., LL. M.,

Instructor in Mathematics and Natural History.

HOWARD L. HODGKINS, A. M., Ph. D.,

Instructor in Physics.

LEE D. LODGE, A. M., Ph. D.,

Instructor in French and Greek.

E. HILTON JACKSON, A. B.,

Instructor in English and Latin.

WOOLSEY ASPINWALL,

Instructor in English.

HENRY R. PYNE,

Instructor in Greek.

E. B. HAY, A. M., LL. M.,

Instructor in Penmanship and Book-keeping

### Design.

The Preparatory School of the Columbian College was established for the purpose of giving a thorough preparation for College or the technical school, and of fitting boys for the higher pursuits of business. In its new building, in its grades of study, and in its general management, the authorities and the instructors have kept steadily in view the growth of the National Capital and the progress of education in our country.

Very many of the boys of our city are compelled to forego a college education and to prepare themselves to enter at once, on leaving the School, some of the many avenues of self-support. This fact has been carefully considered, and a High-school course so arranged as to assist those who take it in making the best use of the time at their disposal.

The School has always been resorted to by a class of students who, being able to devote but a short time to study, avail themselves of the privilege of selecting from the programme of the several classes such studies as examination shows them qualified to pursue. While it is not intended to discourage from such a course those whose circumstances, rather than their desires, dictate their choice, it is urged as most important that all who can should pursue *the regular course* in one department or the other. An additional year of time is well bestowed in securing the fruits of systematic and thorough study, which often fail to mature because of the student's desire to reach his goal prematurely.

Under the terms of the "Admiral Powell Endowment," free scholarships will be given to a limited number of pupils who are preparing for admission to the United States Naval Academy at Annapolis, and who, at the end of their course of study, shall actually enter that institution.

### Discipline.

The School is conducted on Christian principles, both in its discipline and in its teaching: but no instruction is given and no influence exerted in favor of any peculiar denominational tenets.

In addition to daily recitations, examinations are held at the end of each term on all the studies of that term.

The graded scale of merit used in the School ranges from 0 to 100, and each student must reach a grade of 70 in order to be advanced with his class.

The progress of the scholar is stimulated by daily records, by monthly and term reports to parents, by promotions in his class, and by prizes.

### General Information.

One of the Principals will be at the School Building, No. 1335 H street northwest, from the seventh of September until the School begins, from 10 o'clock a. m. to 2 o'clock p. m., for the purpose of receiving new students and of answering inquiries concerning the school.



The number of scholars in the School at any one time is limited to one hundred, and students will be admitted to vacancies in this number according to the order of their registered application.

Applicants for admission to the Preparatory Class should have a good working knowledge of common and decimal fractions and of compound numbers, besides some preparation in English grammar and geography.

The School hours are from 9 o'clock a. m. to 2 15 o'clock p. m.

### Expenses.

For the scholastic year, including all expenses ..... \$80 00

All bills must be paid in advance, at the beginning of each half-yearly term, to H. G. HODGKINS, A. B., Registrar of the School.

### Course of Study.

#### PREPARATORY CLASS.

##### First Term.

Latin, 4 hours.  
Mathematics, 4 hours.  
History—American, 3 hours.  
English—Grammar, Reading, and  
Spelling, 4 hours.

##### Second Term.

Latin, 4 hours.  
Grammar, Reading, and Spelling, 3  
hours.  
Mathematics, 4 hours.  
History—English, 3 hours.  
Geography—Political, 4 hours.

#### JUNIOR CLASS.

##### First Term.

Latin, 4 hours.  
Greek (or Physiology), 4 hours.  
Mathematics, 4 hours.  
English—Parsing and Analysis.  
Composition and Spelling, 4 hours.

##### Second Term.

Latin, 4 hours.  
Greek (or Botany), 4 hours.  
Mathematics, 4 hours.  
Geography—Physical, 3 hours.  
Spelling and Reading, 2 hours.

#### MIDDLE CLASS.

##### First Term.

Latin, 4 hours.  
Greek or American Literature, 2  
hrs.; English Readings, 2 hrs.), 4  
hours.  
Mathematics, 4 hours.  
Civil Government, 1 hour.  
History—General, 4 hours.

##### Second Term.

Latin, 4 hours.  
Greek (or American Literature, 2  
hrs.; English Readings, 2 hrs.), 4  
hours.  
Mathematics, 4 hours.  
History—Greek and Roman, 3 hours.  
English Readings, 1 hour.

## SENIOR CLASS.

*First Term.**Second Term.*

Latin, 4 hours.	Latin, 4 hours.
Greek (or Physics, 2 hrs. : Rhetoric, 2 hrs.), 4 hours.	Greek (or Physics, 2 hrs. : Rhetoric, 2 hrs.), 4 hours.
Mathematics, 4 hours.	Mathematics, 4 hours.
French, 3 hours.	French, 3 hours.
English Readings, 1 hour.	English Readings, 1 hour.

Penmanship, two hours a week for three years. Book-keeping, optional, two hours a week. Composition and Declamation throughout the year for all classes.

The figures denote the number of hours of recitation in each study each week. Subjects in parenthesis can be substituted by those desiring an English or Scientific rather than a Classical course.

#### TEXT-BOOKS USED IN THE COLUMBIAN COLLEGE PREPARATORY SCHOOL.

Merrill's Word and Sentence Book.  
 Westlake's 3,000 Practice Words.  
 Hart's English Grammar and Analysis.  
 Gideon's Exercises in English.  
 Hart's Composition and Rhetoric.  
 Kingsley's Greek Heroes (Ginn & Co.).  
 Plutarch's Lives (Ginn & Co.).  
 Smyth's American Literature.  
 Standard English and American Authors.  
 Swinton's Grammar School Geography.  
 Houston's Physical Geography.  
 Montgomery's History of the United States.  
 Anderson's History of England.  
 Anderson's New General History.  
 Myer's History of Rome.  
 Fyffe's History of Greece.  
 Harkness's Latin Grammar (Standard Edition).  
 Harkness's Easy Latin Method.  
 Bennett's First Latin Exercise Book.  
 Harkness's Caesar.  
 Chase & Stuart's Vergil's Æneid.  
 Chase & Stuart's Cicero's Orations.

Chase & Stuart's Sallust.  
 Goodwin's Greek Grammar (Last Edition).  
 White's First Lessons in Greek (Last Edition).  
 Jones's Greek Prose Composition.  
 Crosby's or Kelsey's Xenophon's Anabasis.  
 Seymour's Homer's Iliad.  
 Edgren's French Grammar.  
 Super's French Reader.  
 Fontaine's Historiettes Modernes, Tome II.  
 Thomson's Complete Graded Arithmetic.  
 Well's Academic Algebra.  
 Well's Plane and Solid Geometry.  
 Avery's First Principles of Natural Philosophy.  
 How Plants Grow (A. S. Gray).  
 Steele's 14 Weeks' Course in Physiology.  
 Foolscap Paper, Writing Tablets, and Pencils.

#### "The Boston Boys."

Several years ago the Preparatory School received from the great benefactor of the Columbian University, W. W. CORCORAN, LL. D., a fine painting, "The Boston Boys," by Henry Bacon. This beautiful ornament of the School hangs in the main room, and is a delight to the eye as well as an incentive to patriotism.

#### Annual Prizes.

The Regular Prizes of the School consist of First and Second Scholarship Medals in each class.

Gold Medals are also given to those Students who have been blameless in deportment and against whom there is no record of absence or tardiness during the entire session.

Through the liberality of the late Mr. Samuel Norment, President of the Central National Bank of Washington, the authorities of the School will award annually three prizes—\$25, \$20, and \$15—to the students whose scholarship, combined with irreproachable conduct, shall entitle them to be considered respectively the First, Second, and Third Honor Boys of the School.

#### Special Annual Prizes.

The following prizes are annually offered as rewards of special excellence in particular branches of study:

1. The Montague Gold Medal, for excellence in the Latin Language.



2. The Roome Gold Medal, for excellence in the Greek Language, awarded by Mrs. Lillian K. Roome.

3. The Townsend Gold Medal, for excellence in Elocution during the session.

4. The Gold Medal for excellence in Declamation at the Commencement, awarded by a committee selected by the Principal.

### Honor Roll—Session 1891-'92.

#### FOR HIGH GRADE OF SCHOLARSHIP.

First Class—First Prize: A. Monell Sayre.

Second Class—First Prize: Charles M. Beall.

Second Prize: John H. Wynne.

Third Class—First Prize: Conrad M. Patten.

Second Prize: Reginald S. Davis.

Fourth Class—First Prize: Arthur P. Spear.

Second Prize: Morris Dow.

Montague Gold Medal in Latin—A. Monell Sayre.

Roome Gold Medal in Greek—A. Monell Sayre.

Lodge Gold Medal in French—A. Monell Sayre.

Hodgkins Gold Medal in Mathematics—Robert C. Wilkins.

Townsend Gold Medal for Elocution during the Session—E. A. Herr.

The Webster and the Depew Gold Medals for Declamation at the Commencement, presented by B. H. Warner, Esq., awarded by a Committee of Judges—first award, G. Emery Green; second award, Austin Herr, Jr.

Honorable mention of Conrad M. Patten, A. Monell Sayre, Philip Casen, Jr., John H. Wynne.

Hermesian Medal for the best Debater—Howard G. England.

Prizes founded by the late Samuel Norment, Esq., and now given by Mrs. Norment, awarded to the highest-honor boys of the School:

First Prize—\$25 in gold: A. Monell Sayre.

Second Prize—\$20 in gold: Conrad M. Patten.

Third Prize—\$15 in gold: Chas. M. Beall.

Gold Medals for Punctuality and Deportment:

Three years—A. Monell Sayre, John H. Wynne.

Two years—Reginald S. Davis, J. Russell Johnson.

One year.—Chas. M. Beall, Joseph A. Burkart, Robert Farnham, Jr., W. Lowry Farnham, Thos. B. Gardner, G. Emery Green, G. R. Greenleaf, Austin Herr, Jr., Chas. G. Hoffman, Fred. C. Jones, Conrad M. Patten, Elliott C. Prentiss, J. L. Riggles, George Robinson, Wm. Oscar Roome, Jr., A. P. Spear, E. E. Spear, John W. Wright.

Honorable mention for an average of 90 per cent.:

Chas. M. Beall, E. K. Broadus, Jos. A. Burkart, John H. Clapp, Reginald S. Davis, Lee S. Dorsey, Morris Dow, Howard G. England, G. R. Greenleaf, Wm. F. Mattingly, Jr., S. D. Moore, Conrad M. Patten, Wm. Oscar Roome, Jr., Arthur P. Spear, E. E. Spear, Wm. D. Sterrett, Robert C. Wilkins, John H. Wynne.

### Students in the Preparatory School.

Student.	Class.	Patron.
Charles M. Beall,	Senior,	Mr. Charles B. Beall.
Abbott Beard,	Junior,	Mr. Henry Beard.
James Wm. Beatty,	Middle,	Dr. H. W. Beatty.
Earl Biscoe,	Preparatory,	Mr. Henry L. Biscoe.
Frank Lee Biscoe,	Senior,	Mr. Henry L. Biscoe.
Wm. G. Bouie,	Senior,	Mr. Wm. V. Bouie.
Charles H. Bradley,	Middle,	Hon. A. C. Bradley.
Edmund K. Broadus,	Senior,	Mr. Thomas A. Broadus.
Evans Brown,	Preparatory,	Mr. A. B. Brown.
Harry S. Brown,	Senior,	Capt. J. G. Brown.
John Gillis Carr,	Senior,	Mrs. E. B. Carr.
David L. Chambers,	Middle,	Mr. D. A. Chambers.
Horace W. Chittenden,	Preparatory,	Mr. George B. Chittenden.
Claude Christman,	Junior,	Mr. P. H. Christman.
John H. Clapp,	Middle,	Mr. John M. Clapp.
Thatcher Clark,	Middle,	Mrs. E. Gordon Clark.
David Currier, Jr.,	Senior,	Mr. David Currier.
Elroy Curtis,	Middle,	Hon. Wm. E. Curtis.
G. N. Curtis,	Middle,	Hon. Wm. E. Curtis.
W. G. Dalby,	Senior,	Rev. I. N. Dalby.
Reginald S. Davis,	Middle,	Mr. Samuel T. Davis.
George J. Dempsey,	Middle,	Mr. Wm. H. Dempsey.
Taylor B. Dixon,	Senior,	Dr. W. S. Dixon.
Lee Dorsey,	Junior,	Mr. Wm. Dorsey.
Lloyd Dorsey,	Senior,	Mr. R. G. Dorsey.
Morris E. Dow,	Junior,	Mrs. Wm. Coppinger.
Charles T. Dudley,	Middle,	Mr. Wm. W. Dudley.

Student	Class	Patron
J. P. Evans,	Middle,	Prof. L. E. C. Colliere.
T. L. Evans,	Junior,	Mrs. L. Kerr.
Robert Farnham, Jr.,	Senior,	Dr. Robert Farnham.
W. L. Farnham,	Junior,	Dr. Robert Farnham.
G. Emery Green,	Middle,	Hon. D. A. Green.
Harry S. Greene,	Senior,	Rev. Samuel H. Greene.
David A. Greenlees,	Senior,	Mr. Archibald Greenlees.
Wm. M. Hallam,	Middle,	Mr. Orrin B. Hallam.
Quirof Harlan,	Junior,	Mr. Burns Harlan.
Austin Herr, Jr.,	Senior,	Mr. Austin Herr.
Clarence H. Herr,	Preparatory,	Mr. Austin Herr.
Raymond Higgins,	Senior,	Mr. Frank E. Higgins.
Wm. E. Holcomb,	Senior,	Mr. C. W. Holcomb.
C. H. Holmead,	Middle,	Mr. C. H. Holmead.
Scott J. Ingram,	Middle,	Mrs. M. M. Ingram.
Thomas G. Jones, Jr.,	Senior,	Mr. Thomas G. Jones.
Frederick B. Kerr,	Middle,	Mr. James Kerr.
Smith Lansdale,	Middle,	Mr. P. M. Smith.
Clifton Laughlin,	Senior,	Mr. M. J. Laughlin.
H. C. Logan,	Middle,	Mrs. Logan.
F. H. Mattingly,	Middle,	Mrs. Mary F. Harwood.
Donald McDonald,	Senior,	Mr. H. Bowyer McDonald.
F. F. McElhone,	Middle,	Mrs. M. M. McElhone.
Oscar Mechlin,	Preparatory,	Mr. F. S. Mechlin.
Armando de Mendonça,	Junior,	Señor Salvador de Mendonça.
Arthur C. Morgan,	Junior,	Mr. R. W. Morgan.
Frank R. Needham,	Middle,	Mr. Charles W. Needham.
Harry Norment,	Middle,	Mrs. M. E. Norment.
Willie H. Parker,	Preparatory,	Mrs. W. H. Parker.
Conrad M. Patten,	Middle,	Mr. John D. Patten.
S. C. Peele,	Middle,	Mr. S. J. Peele.
John L. Riggles,	Senior,	Mr. J. Richard Riggles.
Wm. W. Riley,	Middle,	Mr. Thomas R. Riley.
George Robinson,	Junior,	Mrs. L. V. Robinson.
Albert Romero,	Senior,	Señor Cayetano Romero.
Wm. O. Roome, Jr.,	Senior,	Mr. Wm. O. Roome.
Charles R. Schmidt,	Senior,	Miss Flora Schmidt.
Alvan Skiles,	Junior,	Mrs. R. W. Skiles.
Granville Smith,	Senior,	Mrs. Isabel P. Smith.
H. E. Smith,	Senior,	Mrs. B. F. Smith.
Arthur Spear,	Junior,	Gen. Ellis Spear.



Student.	Class.	Patron.
Edwin Ellis Spear,	Senior,	Gen. Ellis Spear.
Douglas D. B. Sterrett,	Preparatory,	Rev. J. Macbride Sterrett.
Henry H. D. Sterrett,	Middle,	Rev. J. Macbride Sterrett.
Robert Sterrett,	Middle,	Rev. J. Macbride Sterrett.
Wm. Dent Sterrett,	Junior,	Rev. J. Macbride Sterrett.
Garden C. Stuart,	Senior,	Rev. A. R. Stuart.
Joseph Tyssowski,	Middle,	Mr. Joseph Tyssowski.
Dennis D. Walker,	Middle,	Mr. John W. Walker.
Charles H. Weaver,	Senior,	Mrs. A. M. Weaver.
Louis Weaver,	Senior,	Mrs. A. M. Weaver.
Jacob T. Webb,	Middle,	Mr. George W. Webb.
James W. White, Jr.,	Middle,	Mr. James W. White.
F. M. Wise, Jr.,	Middle,	Lieut. Com. F. M. Wise.
Wm. G. Woodford,	Senior,	Mr. Evelyn S. Woodford.
John H. Wynne,	Senior,	Mr. Louis B. Wynne.

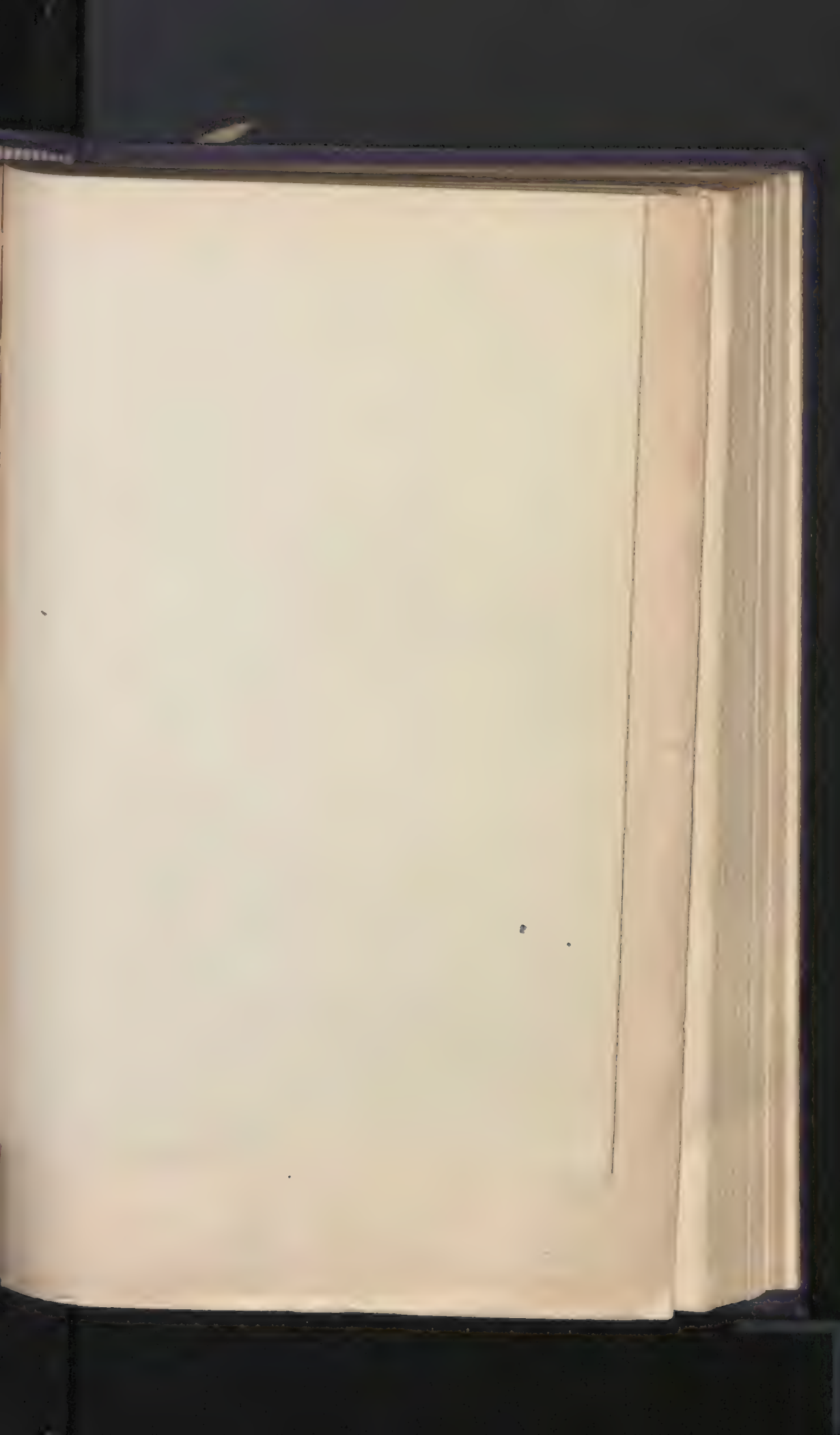
Students in the Preparatory School . . . . . 83

#### Graduates.

Frank L. Biscoe,	English, French.
Gilbert Bloss,	English.
Edmund K. Broadus,	English.
Joseph A. Burkart,	Mathematics, French.
Wm. W. Comstock,	English, Latin, Mathematics, French.
Howard G. England,	English, Mathematics.
Thomas B. Gardner,	English.
G. R. Greenleaf,	English, Latin, Mathematics, French.
Austin Herr, Jr.,	English, French.
Charles G. Hoffman,	English, French.
Ered. C. Jones,	English, Mathematics.
J. Russell Johnson,	English, French.
Pearson F. Marsh,	Latin, Mathematics, French.
Wm. F. Mattingly, Jr.,	English, Latin, Greek.
Salvador D. Moore,	English, Mathematics.
Drainard W. Parker,	English.
Elliott C. Prentiss,	English, Mathematics, French.
Walter P. Redington,	Latin.
R. Oldrin Salter,	English, French.
A. Monell Sayre,	English, Latin, Greek, Mathematics, French.

J. McB. Sterrett, Jr.,	English, Latin, Greek, Mathematics.
Paul E. Taussig,	Mathematics.
Brainard H. Warner, Jr.,	English, Mathematics, French.
Robert C. Wilkins,	English, Latin, Mathematics, French.
Charles F. Wilson,	English, French.
Wm. G. Woodford,	English, French.
John W. Wright,	English, French.

Diplomas of Graduation will be given hereafter to those only who have successfully completed the course in at least three branches.







## THE COLUMBIAN UNIVERSITY

*Printed for the Use of the Board of Officers and Trustees and  
Published.*

I have the honor to submit, from data furnished by the Financial Agent, the following report on the financial operations of the University during the fiscal year ending May 31, 1893, as the basis of the budget for the fiscal year ending May 31, 1894:

### THE GENERAL FUND

*Receipts for Fiscal Year 1892-93.*

On hand at beginning of year . . . . .		\$1,757 51
Steady . . . . .	\$607 89	
Rents . . . . .	3,029 56	
Interest . . . . .	8,348 61	
Dividends . . . . .	37 50	
	<hr/>	12,923 56
Total . . . . .		\$13,781 07

*Disbursements for Fiscal Year 1892-93.*

	Vouchers.	Paid.
Dr. J. C. Welling . . . . .	\$1,000 00	\$1,000 00
Dr. J. C. Welling, for clerk hire . . . . .	250 00	250 00
R. H. Martin, financial agent . . . . .	1,750 00	1,750 00
H. G. Hodgkins, registrar and librarian . . . . .	800 00	790 33
W. L. Lewis, janitor . . . . .	1,368 00	441 00
R. T. Harris, janitor . . . . .		325 30
Frank Becket, janitor . . . . .		360 00
Repairs . . . . .	1,500 00	538 50
Insurance . . . . .	276 00	164 00
Water rents . . . . .	232 00	214 00
Taxes { Personal, two years . . . . .	51 36	1,959 63
{ Real . . . . .	858 96	
{ Special improvements . . . . .	150 31	
Gas . . . . .	1,000 00	351 88
Fuel . . . . .	750 00	743 00
Advertising . . . . .	250 00	231 9
Printing . . . . .	450 00	184 25
Stationery . . . . .		33 98
Sundries . . . . .	1,564 53	884 08
	<hr/>	<hr/>
	\$15,937 53	\$12,435 88

# THE PREPARATORY SCHOOL.

## Receipts for Fiscal Year 1892-'93.

Tuition fees collected . . . . .	\$5,295 00
Rent of Powell house . . . . .	1,140 00
	<hr/> \$6,435 00

## Disbursements for Fiscal Year 1892-'93.

	Appropriated.	Expended.
Professor A. P. Montague . . . . .	\$100 00	\$100 00
Professor L. D. Lodge . . . . .	200 00	140 43
Professor J. J. Chickering . . . . .	\$1,066 64	1,066 64
Instructor Jackson . . . . .	700 00	641 51
Instructor Aspinwall . . . . .	700 00	641 51
Instructor Pyne . . . . .	200 00	140 43
R. B. Randolph, } writing masters . . . . .	150 00	112 00
E. B. Hay, } . . . . .		
W. Honesty, janitor . . . . .	275 00	275 00
Repairs . . . . .		223 15
Insurance . . . . .		112 50
Water tax . . . . .		55 25
Advertising . . . . .		23 86
Printing . . . . .		23 90
Stationery . . . . .		25 16
Fuel . . . . .		278 00
Sundries . . . . .		319 37
Taxes on Powell house { June 30, '92, \$430.37 } . . . . .		781 44
{ June 30, '93, \$351.07 } . . . . .		
	<hr/> \$6,391 84	<hr/> \$4,860 15

# THE COLUMBIAN COLLEGE

## Receipts for Fiscal Year 1892-'93.

Tuition collected . . . . .	\$4,735 00
Diplomas . . . . .	20 00
Transferred from Law fund . . . . .	7,500 00
Drawn from General fund . . . . .	750 89
	<hr/>
Total receipts . . . . .	\$13,005 89



*Disbursements for Fiscal Year 1891-'92.*

	Appropriated	Expended
Professor A. J. Huntington	\$1,800 00	\$1,800 00
Professor S. M. Shute	1,800 00	1,800 00
Professor S. M. Shute, secretary faculty 1891-'92	40 00	40 00
Professor E. T. Fristoe	1,800 00	525 00
Professor J. H. Gore	1,800 00	1,713 07
Professor A. P. Montague	1,800 00	1,800 00
Professor J. McB. Sterrett	1,800 00	1,264 09
Professor L. D. Lodge	1,500 00	1,412 65
Professor H. L. Hodgkins	1,500 00	1,500 00
Professor C. E. Munroe	\$3,300 00	550 00
Professor H. C. Bolton	225 00	225 00
Printing		20 50
Stationery		11 74
Laboratory and chemicals	180 00	200 24
Library	100 00	
Sundries		143 60
	<u>\$14,345 00</u>	<u>\$15,005 89</u>
Expenditures		15,005 89
Unexpended balance of appropriation	<u>\$1,339 11</u>	

**THE CORCORAN SCIENTIFIC SCHOOL.***Receipts for Fiscal Year 1891-'92.*

On hand June 1, 1892	\$753 00
Tuition	\$7,092 00
Sundries	40 04
	<u>7,132 04</u>
Total receipts	<u>\$7,885 04</u>

*Disbursements for Fiscal Year 1891-'92.*

	Appropriated	Expended
Professor E. T. Fristoe		\$56 25
Professor C. E. Munroe	\$3,300 00	1,373 00
Professor S. M. Shute		455 30
Professor H. L. Hodgkins		1,075 42
Professor W. S. Yeates		267 05
Professor L. D. Lodge		400 15
Professor F. R. Fava		924 01

	Appropriated	Expended
Professor H. Schonfeld		\$128 17
Professor J. H. Cone		120 77
Professor Harry King		202 68
Instructor E. P. Lewis		105 30
Assistant H. A. Bamstead		265 83
Assistant H. R. Pyne		96 61
Repairs		601 43
Gas and electric lighting		160 42
Advertising		155 36
Printing		40 50
Stationery		2 75
Fuel		12 15
Laboratories Physical	\$100 00	118 62
Corcoran	250 00	259 75
Mineralogy	30 00	23 77
Assay		34 20
Administration of lectures and breakage	220 00	
Sinnettes		261 32
Deposits returned		70 69
	\$600 00	\$7 602 53

### LAW SCHOOL

*Receipts for Fiscal Year 1892-93.*

On hand June 1, 1892		\$5,112 97
Tuition fees undergraduate	\$15,243 13	
Tuition fees (graduate)	1,900 00	
Diplomas	320 00	
Prizes	150 00	
		17,613 13
Total receipts		\$22,726 10

*Disbursements for Fiscal Year 1892-93.*

	Appropriated	Expended
Professor W. S. Cox	\$3,000 00	\$3,000 00
Professor W. A. Maury	3,000 00	3,000 00
Professor J. M. Harlan	2,000 00	2,000 00
Professor W. G. Johnson	1,000 00	1,000 00
Professor D. J. Brewer	500 00	500 00
Professor G. H. Emmott	250 00	250 00
Professor H. E. Davis	200 00	200 00
Professor A. S. Worthington	100 00	100 00
Professor W. E. Simonds	300 00	300 00
Professor A. C. Bradley	500 00	300 00

## P. G. College

	Appropriation	Expenditure
Professor W. A. Maury		\$545 00
Professor W. C. Johnson		545 00
Professor H. E. Davis		545 00
Repairs		91 75
Lighting		117 49
Advertising	500 00	492 23
Printing	190 00	44 10
Cost of diplomas and engrossing them		231 00
Stationery	50 00	29 33
Library	1,000 00	138 05
Prizes	240 00	240 00
Supplies	1,000 00	213 17
Fitting up Graduate Lecture Hall		235 00
Transferred to Academic Department		7,500 00
	\$13,740 00	\$21,917 14

The excess of expenditures over appropriations is due to the transfer of \$7,500 to the Academic Department.

To account for this untoward balance-sheet, I beg leave to explain that the corporation at the last annual meeting, emboldened by the unexampled prosperity of the University during the year 1891-'92, made appropriations above those estimated by the President in his original budget to the amount of

\$950 00

To this should be added:

The employment of Associate Principal in Preparatory School, made necessary by Professor Montague's illness	1,000 00
Increase of salary voted to Professor Munroe above that of Professor Fristol for the year	573 00
Taxes on Powell house two years omitted from last budget	781 00
Laying water main in front of University property	459 31
Falling off in receipts of Preparatory School	800 00
Falling off in receipts of College	400 00
Falling off in receipts of Law School	3,951 00
	\$9,514 31



# BUDGET FOR FISCAL YEAR 1893-'94.

I respectfully recommend that the following sums, or so much thereof as may be found necessary, be appropriated for the subjoined expenditures of the University during the fiscal year extending from June 1, 1893, to the 31st day of May, inclusive, 1894.

Wherever these estimates are printed in Roman type they correspond with the appropriations made for the fiscal year which closed May 31, 1893.

Wherever they are printed in *italics* they suggest a new expenditure or an increased or reduced expenditure.

## APPROPRIATIONS FOR GENERAL EXPENDITURES.

Salary of President.....	\$4,000 00
Allowance to President for clerk hire.....	250 00
<i>Allowance to Professor Munroe, as Dean of College of Scientific School.....</i>	200 00
Salary of Financial Agent.....	1,750 00
Registrar and Librarian.....	800 00
Servants' wages.....	1,368 00
Repairs.....	1,500 00
Insurance.....	276 00
Water rents.....	232 00
<i>Taxes..... (\$850)</i>	1,275 00
Gas.....	1,000 00
Fuel.....	750 00
Advertising.....	250 00
Sundries.....	1,561 53
<i>Printing..... (\$450)</i>	150 00
<i>Catalogues.....</i>	700 00
<i>Writing History of the University (Professor Lodge), to be printed by U. S. Bureau of Education.....</i>	200 00
	\$16,262 53

## APPROPRIATIONS FOR EXPENDITURES IN THE LAW SCHOOL.

For increase of Law Library.....	\$1,000 00
Salary of Professor Cox.....	3,000 00
"    "    Maury.....	3,000 00
"    "    Harlan.....	2,000 00
"    "    Brewer.....	500 00
"    "    Johnson.....	1,000 00

Fee of Lecturer on Civil Law	\$250 00
" " Patent Law	300 00
" " Criminal Practice not exceeding 102	500 00
" " Practical Commercial Law not exceeding	300 00
" " History of the Law not exceeding	200 00
" " Legal Research	800 250 00
" " International Law	250 00
	<hr/> \$12,550 00

The salaries of Professors in the School of Practice to remain on the same basis as during the last fiscal year.)

Prizes	\$240 00
Printing	100 00
Stationery	50 00
Advertising	500 00
Sundries	1,000 00
	<hr/> \$1,890 00

The Board of Trustees has recommended that \$3,000 be appropriated toward the School of Comparative Jurisprudence.

#### APPROPRIATIONS FOR EXPENDITURES IN THE COLLEGE AND PREPARATORY SCHOOL

Salary of Professor Huntington	\$1,800 00
" " State	1,800 00
" " Munroe	1,800 00
" " Gore	1,800 00
Allowance as Secretary of Faculty	40 00
Salary of Professor Montague	1,800 00
Allowance for extra work	500 00
Salary of Professor Sterrett	1,800 00
" " Lodge	1,500 00
" " Hodgkins	1,500 00
Salary of Justice Jackson	(\$700) 800 00
" " Associate	700 800 00
Salary of Writing Master	150 00
Salary of Mr. Pratt	600 00
Salary of Mr. Cheekney	1,600 00
	<hr/> \$18,090 00

APPROPRIATIONS FOR EXPENDITURES IN THE LABORATORIES.

For Laboratory at Corcoran Scientific School	(\$200)	\$200 00
" " " " " " " " " " " "	(\$180)	100 00
Expenses to Laboratory	.....	125 00
		<hr/> \$425 00

Salaries in Corcoran School to remain on same basis as during the last fiscal year.

Total appropriation ..... \$49,217 53

All of which is respectfully submitted.

JAMES C. WELLING.

WASHINGTON, June 1, 1892.



# THE COLUMBIAN UNIVERSITY.

*Printed for the Use of the Board of Overseers and Trustees—and Published.*

## SUPPLEMENT TO BUDGET OF JUNE 1, 1893.

*Actual Receipts and Disbursements for Each Department for Fiscal Year ending May 31, 1892.*

Department.	Balances May 31, '91	Receipts	Disburse- ments.
College .....		\$5,280 50	\$12,268 76
Preparatory School .....		6,701 83	3,160 88
Law School .....	\$6,396 50	20,945 00	14,228 53
Corcoran School .....	641 57	5,920 98	5,809 55
General Fund .....	3,019 65	12,520 29	12,335 12
Totals .....	10,057 72	51,368 60	47,802 84
Discount paid Riggs & Co., \$6,000.			
Excess of receipts over current dis- bursements .....			3,565 76
			51,368 60

*Actual Receipts and Disbursements for Each Department for Fiscal Year ending May 31, 1893.*

Department.	Balances May 31, '92	Receipts.	Disburse- ments.
College .....		\$4,755 00	\$13,005 89
Preparatory School (includes rent) .....		6,435 00	4,860 15
Law School .....	\$5,112 97	17,613 13	14,417 14
Corcoran School .....	753 00	7,162 04	7,602 53
General fund .....	1,797 50	12,023 57	12,435 88
Total .....	7,623 47	47,958 74	52,321 59
Excess of disbursements over receipts for fiscal year ending May 31, 1893 .....		4,362 85	
Actual receipts independent of bal- ances for fiscal year running from June 1, 1891, to May 31, 1892 .....			51,368 60
Actual receipts independent of bal- ances for fiscal year running from June 1, 1892, to May 31, 1893 .....			47,958 74
Total for the two years .....			99,327 34
Average for the two years .....			49,663 64
Balance on hand May 31, 1891 .....		10,057 72	
" " " 31, 1892 .....		7,623 47	
" " " 31, 1893 .....		3,260 62	
Total receipts, including balances for fiscal year 1891-1892 .....			20,941 81
Total receipts, including balances for fiscal year 1892-1893 .....			61,126 32
			55,582 22

*Law School*

Balance on hand May 31, 1892.....	\$5,112 97
Receipts: Tuition.....	\$17,143 13
Prizes and diplomas.....	470 00
	<u>17,613 13</u>
	\$22,726 10
Disbursements: For salaries, etc.....	\$14,417 44
Transferred to College.....	7,500 00
	<u>21,917 44</u>
Credit balance.....	\$808 96

*Corcoran Scientific School.*

Balance on hand May 31, 1892.....	\$753 00
Receipts: Tuition.....	\$6,769 81
Deposit, returnable to students.....	160 11
Laboratory material.....	162 08
Miscellaneous sources.....	40 04
	<u>7,132 04</u>
	\$7,885 04
Disbursements.....	<u>7,602 53</u>
Credit balance.....	\$282 51

Average receipts for two years in College.....	\$5,017 75
" " " " " " Preparatory School.....	6,568 84
" " " " " " Law School.....	19,279 16
" " " " " " Corcoran School.....	6,526 48
" " " " " " General Fund.....	12,272 25
	<u>\$49,664 48</u>

Add the increase from revenue derived from new investments for the estimated income for 1893-'94.....	1,650 00
Estimated income for fiscal year ending May 31, 1894...	<u>\$51,314 48</u>

I have to add the following items to the budget already submitted:

For lecture course, Oriental History.....	\$225 00
Cost of reception to Graduate Faculty, May 25, 1893.....	250 00
For Laboratory of Mineralogy.....	30 00
For Physical Laboratory.....	200 00
	<u>\$705 00</u>

Total appropriation..... \$10,922 53

Repairs, \$1,500.00, to be applied to University building, Preparatory building, Columbia Law building, and houses belonging to the University, as occasion may require in each.

All of which is respectfully submitted.

JAMES C. WELLING.

WASHINGTON, June 10, 1894.

TREASURER'S REPORT  
ON THE  
PROPERTY AND FINANCES  
OF THE  
COLUMBIAN UNIVERSITY.

FOR THE  
FISCAL YEAR ENDING MAY 31, 1893.

FROM THE UNIVERSITY PRESS.

WASHINGTON, D. C.  
J. J. J. & DETWEILER, PRINTERS.  
1893.



All of which is respectfully submitted.

JAMES C. WELLING.

WASHINGTON, *June 10, 1894.*

TREASURER'S REPORT  
ON THE  
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1893.

All of which is respectfully submitted.

JAMES C. WELLING.

WASHINGTON, *June 10, 1893.*



## ANNUAL REPORT OF THE TREASURER.

---

*To the Overseers and Trustees of the Columbian University.*

GENTLEMEN: Herewith I submit my Annual Report, covering the financial operations of the University during the fiscal year ending May 31, 1893.

Certain real-estate notes, aggregating \$30,500, bearing 5 per cent. interest, were called in as they matured, and have been reinvested at the rate of 6 per cent. interest.

The annual income from rents has been increased \$550.

Negotiations for the sale of \$6,700 in U. S. 4 per cent. registered bonds and \$9,000 in D. C. 3.65's, to be reinvested in real-estate notes bearing 6 per cent. interest, are in progress.

The annual increase in interest from the reinvestment of the proceeds of the par value of the bonds will amount to \$345.50.

From changes made during the past fifteen months in the invested funds and the increase in rentals the income of the General Fund will be increased over \$1,650 per annum.

A detailed statement of the changes in the invested funds will be found in the report.

Permit me to invite your attention again to the dilapidated condition of the Law Building on Fifth street and the Cutler house, No. 222 Third street N. W. The advisability of spending a sufficient sum of money to put such old buildings in a tenantable condition is questionable.

Schedule "A" is a Detailed Statement of Receipts and Disbursements.

- " "B," Statement of the Actual Receipts and Disbursements for the Last Two Years.
- " "C," Statement of the Receipts and Disbursements of the Corcoran Endowment, Elton, Willie E. Fitch, and Sinking Fund—Medical Faculty Note.
- " "D," Recapitulation of Current and Invested Funds.
- " "E," Liabilities.
- " "F," Investments of the Scholarships.
- " "G," Investments of the Corcoran Endowment Fund.
- " "H," Miscellaneous Investments.
- " "I," Description and Assessed Valuation of Real Estate.
- " "J," Table of Insurance.

Appended to the report is a detailed statement of the financial operations of the Medical and Dental Departments of the Columbian University from March 19, 1892, to March 19, 1893.

All of which is respectfully submitted.

JAMES C. WELLING,  
*Acting Secretary and Treasurer,*  
By ROBERT H. MARTIN,  
*Financial Agent.*

WASHINGTON, D. C., June 1, 1893.

All of which is respectfully submitted.

JAMES C. WELLING.

WASHINGTON, June 10, 1893.

# SCHEDULE "A."

## Detailed Statement of Receipts and Disbursements.

### GENERAL FUND.

Credit balance per last report, May 31, 1892 ..... \$1,757 51

#### RECEIPTS.

##### Sundries:

Taxes refunded for overpayment made in 1877. ....	\$82 89	
Medical Faculty, fourth and last note of tax loan of \$2,000 .....	500 00	
Rev. Alexander Mackay-Smith, D. D., donation to medal fund .....	25 00	
		607 89

##### Rents:

222 Third street northwest, Mrs. C. B. Cutler .....	\$765 00	
Lot 1, square 8, of 12, Littlefield & Alvord .....	\$337 44	
Lots 12 and 13, square 13, T. J. Callaghan .....	291 62	
		629 06
Law Building: B. U. Keyser .....	\$54 00	
R. A. Sprague .....	60 00	
Frank T. Browning .....	180 00	
Henry Wise Garnett .....	420 00	
R. B. Lewis .....	120 00	
W. H. Smith .....	96 00	
Enoch Totten .....	510 00	
A. E. L. Keese .....	31 50	
W. V. R. Berry .....	144 00	
		1,615 50
Rent of lecture hall in University Building .....	20 00	
		3,029 56

##### Interest:

On real-estate notes .....	\$6,681 38
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## On Corcoran Endowment Fund notes.

Medical Faculty .....	\$500 00	
Robert W. Fenwick .....	60 90	\$560 90
On loan to Medical Faculty for payment of taxes on Medical Building .....		12 50

## Interest on bonds:

United States four per cents. ....	\$388 00	
District of Columbia three sixty-fives ...	345 83	
Burlington and Missouri River Railroad. ....	140 00	
Cosmos Club .....	35 00	
Church of the Covenant .....	185 00	
	<u>1,093 83</u>	8,348 61

## Stocks:

Quinsigamond Bank dividends .....	\$27 50	
Pennsylvania Telephone Company dividends .....	10 00	37 50
		<u>\$13,781 07</u>

Note. — Due General Fund May 31, 1893, uncollected rents, \$10.50.

## DISBURSEMENTS

## Salaries:

Dr. J. C. Welling, President, in full to May 31, 1893 .....	\$4,000 00	
Allowance for clerk hire in full to May 31, 1893 .....	250 00	\$4,250 00
R. H. Martin, Financial Agent, in full to May 31, 1893 .....	1,750 00	
H. G. Hodgkins, Registrar and Librarian, in full to May 31, 1893 .....	793 33	\$6,793 33

## Janitors' wages:

W. L. Lewis in full to May 31, 1893. ....	\$444 00	
R. T. Harris in full to May 31, 1893 .....	323 50	
Frank Becket in full to May 31, 1893 .....	360 00	1,127 50
		<u>\$7,920 83</u>

All of which is respectfully submitted.

JAMES C. WELLING.

WASHINGTON, June 10, 1893.

## MISCELLANEOUS

## Repairs and Materials.

## University Building:

H. A. Rebollo, glazing, and repairing locks .....	\$3 00	
D. H. Washburn, repairing electric wires .....	4 50	
Johnson & Morris, repairing heating ap- paratus .....	13 85	
C. Schneider, repairing door-springs .....	3 00	
J. McGregor, carpenter work and materials .....	186 14	
Kane & Roach, repairs to water tank in basement .....	3 00	
Gibson, Louthan & McLachlen, carpenter work and materials .....	13 75	
		\$257 30

## Law Building:

W. B. Moses & Son, papering two rooms .....	\$19 00	
J. I. Atchison, repairs to plumbing .....	17 00	
J. McGregor, repairing window sash .....	7 50	
J. W. Musson, repairs to plumbing .....	2 50	
		46 00

## Cutler house:

W. B. Moses & Son, papering dining-room and hall .....	35 00	
		\$338 30

## Insurance:

University Building .....	100 00	
Furniture, etc., University Building .....	25 00	
		125 00
Law Building .....		24 00
Cutler house, 222 3d street N. W. ....	15 00	
		164 00

## Water rents:

University Building .....	150 50	
Law Building .....	26 00	
Cutler house .....	37 50	
		214 00

## Taxes

## Personal:

For fiscal year ending June 30, 1892	\$25 92	
For fiscal year ending June 30, 1893	25 44	
		\$51 36

## Real estate:

Whole of tax for fiscal year ending June 30, 1893, on lots in square south of 12, 13, 16, 23; west of 23, 83, 87, 88, and 89 (unimproved)	\$312 06	
Whole of tax for year ending June 30, 1893, on lot 14 and south half of 13, square 489 (Law Building)	289 20	
Whole of tax for year ending June 30, 1893, on lots 42 and 43, reservation 10 (No. 222 Third street N. W.)	257 70	
		858 96
For laying water main, special tax on —		
Lot 10, square 13	\$131 31	
Lot 12, square 13	175 78	
Lot 13, square 13	153 22	
		460 31
		\$1,369 63

## Gas:

University Building	\$320 75	
Law Building	31 13	
		351 88

## Advertising:

Washington Post	\$121 87	
Religious Herald	9 00	
Christian Examiner	18 00	
The Evening Star	75 06	
The Inquirer Publishing Company	8 00	
		231 93

## Printing:

Judd & Detweiler	\$118 50	
Gibson Brothers	20 40	
J. H. Oberly	6 50	
The Knickerbocker Press	31 65	
The Standard Engraving Company	7 20	
		184 25

All of which is respectfully submitted.

JAMES C. WELLING.

WASHINGTON, June 10, 1893.



## Stationery, etc.

Gedney & Roberts .....	\$18 50	
W. Ballantyne & Sons .....	12 73	
W. F. Roberts .....	2 75	
		<u>\$33 98</u>

## Fuel:

John T. Given .....	743 00
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## Sundries:

Dr. J. C. Welling, postage for year and traveling expenses .....	\$113 81	
Professor C. E. Munroe, traveling expenses .....	26 75	
H. G. Hodgkins, postage, freight, etc. ....	57 84	
R. H. Martin, postage and freight .....	103 01	
		<u>\$301 41</u>
N. W. Burchell, supplies for janitor .....	14 63	
J. B. Lambie, supplies for janitor .....	7 20	
		<u>21 83</u>
Devine & Keenan (The Shoreham), Lunch for corporation meeting .....	18 00	
Great Falls Ice Company .....	28 94	
C. Schneider, moving safe .....	3 00	
G. Marston, staining, oiling, and waxing floors .....	10 00	
L. S. Fristoe, for silver and platinum wire left by Professor Fristoe .....	65 00	
Chesapeake and Potomac Telephone Co. ....	91 67	
Office Specialty Manufacturing Co. ....		
One letter cabinet for President's office .....	47 00	
One file case for Treasurer's office .....	85 00	
		<u>132 00</u>
Assessment for membership in College Association of the Middle States and Maryland—year 1891-'92 .....	14 00	
year 1892-'93 .....	10 00	
		<u>24 00</u>
T. D. Singleton, cleaning and relaying carpets .....	13 65	
W. B. Moses & Sons, one large awning .....	15 00	
Royce & Marean, rent of Gardner clock May 18, 1892, to August 18, 1892. ....	5 00	
Repairs to lights and wires in library .....	2 25	
		<u>7 25</u>

F. S. Locket, commissions on collections .....	\$17 50	
C. F. Wollard, for collecting overpayment of taxes, made in 1877 .....	27 63	
National Safe Deposit Co., year ending July 3, 1893.	40 00	
W. E. Parker, 500 index cards .....	1 80	
S. E. Rabbit, two blackboards .....	22 50	
G. F. Honesty, removing ashes .....	15 40	
W. A. Boyd, two copies city directory .....	10 00	
Wilmarth & Edmondston, cuspidors .....	2 50	
Mrs. C. B. Cutler, one-half cost of clearing water- pipe .....	10 00	
Professor F. R. Fava, preparing map for catalogue..	5 00	
		\$884 08
Transferred to Academic fund .....		750 89
		\$13,186 77
Credit balance .....		594 30
		\$13,781 07

## ACADEMIC DEPARTMENT.

## RECEIPTS.

## College:

Tuition .....	\$4,620 00	
Laboratory material .....	115 00	
Diplomas .....	20 00	
Transferred from Law Department .....	\$7,500 00	
Transferred from General fund .....	750 89	
		\$8,250 89
		\$13,005 89

## Preparatory School:

Tuition .....	\$5,295 00	
Rents, Admiral Powell property .....	1,140 00	
		6,435 00
		\$19,440 89

NOTE.—Tuition due the College, \$108.00; tuition due the Preparatory School, \$158.00.

All of which is respectfully submitted.

JAMES C. WELLING.

WASHINGTON, June 10, 1893.

## DISBURSEMENTS

## Salaries:

Professor A. J. Huntington, in full to May 31, 1893.	\$1,800 00
Professor S. M. Shute, in full to May 31, 1893.	\$1,800 00
Salary as Secretary of Faculty, year ending May 31, 1892.	40 00
	<hr/> 1,840 00
Professor E. T. Fristoe, 4½ months, ending September 15, 1892.	525 00
Professor C. E. Munroe, November and December, 1892.	550 00
Professor A. P. Montague, in full to May 31, 1893.	\$1,800 00
Allowance as Principal of Preparatory School.	100 00
	<hr/> 1,900 00
Professor J. H. Gore, in full to May 31, 1893.	1,713 07
Professor J. McB. Sterrett, in full to May 31, 1893.	1,264 00
Professor L. D. Lodge, in full to May 31, 1893.	\$1,412 65
Allowance as Vice-Principal of Preparatory School.	140 43
	<hr/> 1,553 08
Professor H. L. Hodgkins, in full to May 31, 1893.	1,500 00
Professor H. C. Bolton, in full for course of lectures.	225 00
J. J. Chickering, Associate Principal Preparatory School, in full to May 31, 1893.	1,006 64
Instructor E. H. Jackson, in full to May 31, 1893.	641 51
Instructor W. Aspinwall, in full to May 31, 1893.	641 51
Instructor H. R. Pyne, in full to May 31, 1893.	140 43
R. B. Randolph, for instruction in penmanship and book-keeping.	12 00
E. B. Hay, for instruction in penmanship and book-keeping.	100 00
	<hr/> \$15,472 33
Janitor's wages:	
Walter Honesty.	275 00



Repairs—Preparatory School :		
Alex. Miller, carpenter work and materials .....	\$10 58	
Croney & Minnix, repairing wainscoting .....	1 00	
M. F. Hobson, kalsomining .....	35 00	
John McGregor, carpenter work and materials .....	70 82	
S. F. Entrikin, painting .....	8 50	
C. A. Ball, repairing boiler .....	17 50	
J. I. Atchison, repairing heating apparatus .....	45 75	
J. K. Ward, wrapping steam pipes .....	25 00	
		\$223 15
Insurance :		
Preparatory School Building .....		12 50
Water rents :		
Powell house, 1707 I street N. W. ....	\$13 75	
Preparatory School Building .....	41 50	
		55 25
Taxes :		
Powell house—year ending June 30, 1892 .....	\$430 37	
year ending June 30, 1893 .....	351 07	
		781 44
Advertising :		
The Evening Star .....		23 80
Stationery :		
W. Ballantyne & Sons .....		36 90
Printing—		
College :		
Gedney & Roberts .....	\$10 00	
Judd & Detweiler .....	5 00	
E. B. Hay, engrossing diplomas .....	5 50	
		\$20 50
Preparatory School :		
Gedney & Roberts .....	\$10 00	
Judd & Detweiler .....	11 75	
Gibson Brothers .....	2 15	
		23 90
		44 40

All of which is respectfully submitted.

JAMES C. WELLING.

WASHINGTON, June 10, 1893.

## College Laboratory:

Richards & Co., Limited, bill of chemicals .....	\$200 24
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## Fuel—

## Preparatory School.

John T. Given .....	278 00
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## Sundries—

## Preparatory School:

W. H. Rapley, rent of National Theatre for school exhibition .....	\$100 00	
Prof. L. Weber, music for the exhibition .....	42 00	
W. E. Parker, 250 index cards .....	90	
Walter Honesty, removing ashes .....	9 10	
J. J. Chickering .....	6 79	
M. W. Beveridge, 1 toilet set .....	2 90	
W. B. Moses & Sons, 2 chairs and 1 rug .....	10 00	
Hygienic Ice Co. ....	3 85	
Harris & Shafer, medals .....	114 30	
Mr. C. Romero, tuition refunded .....	20 00	
Supplies for Janitor: N. W. Burchell .....	4 81	
J. B. Lambie .....	1 87	
J. R. Riggles & Bro. ....	2 85	
		\$319 37

## College:

Prof. L. Weber, music for commencement .....	\$21 00	
M. W. Galt & Co., medals .....	74 00	
W. E. Parker, 500 index cards .....	1 80	
W. Palmer, use of lantern for illustrating Dr. Bolton's lectures .....	36 80	
W. B. Moses & Son, darkening windows for Dr. Bolton's lectures .....	10 00	
		143 60
		462 97

Credit balance, Preparatory fund .....	\$17,866 04
	1,574 85

	\$19,440 89
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## LAW DEPARTMENT.

Balance on hand per last report, May 31, 1892 ----- \$5,112 97

## RECEIPTS.

Tuition :		
Regular .....	\$15,508 13	
Post-graduate .....	1,635 00	
		\$17,143 13
M. M. Parker prize .....	\$100 00	
A. T. Britton prize .....	50 00	
		150 00
Diplomas .....		320 00
		<u>\$17,613 13</u>
		<u>\$22 726 10</u>

NOTE.—Tuition due the Law School, \$810.

## DISBURSEMENTS.

Salaries :		
Professor W. S. Cox, in full to May 31, 1893 .....	\$3,000 00	
Professor W. A. Maury, in full to May 31, 1893 .....	\$3,000 00	
One-third of fees, Graduate School, for year ending May 31, 1893 .....	545 00	3,545 00
Professor J. M. Harlan, in full to May 31, 1893 .....		2,000 00
Professor W. G. Johnson, in full to May 31, 1893 .....	\$1,000 00	
One-third of fees, Graduate School, for year ending May 31, 1893 .....	545 00	1,545 00
Professor D. J. Brewer, in full to May 31, 1893 .....		500 00
Professor G. H. Emmott, in full to May 31, 1893 .....		250 00
Professor H. E. Davis, in full to May 31, 1893 .....	\$200 00	
One-third of fees, Graduate School, for year ending May 31, 1893 .....	545 00	745 00
Professor A. S. Worthington, in full to May 31, 1893 .....		100 00
Professor W. E. Simonds, in full to May 31, 1893 .....		300 00
Professor A. C. Bradley, in full to May 31, 1893 .....		300 00
		<u>\$12,285 00</u>

All of which is respectfully submitted.

JAMES C. WELLING.

WASHINGTON, June 10, 1893.



## Repairs.

Johnson & Morris, repairing steam heating apparatus	\$2 25	
J. I. Atchison, repairing gas fixtures	11 00	
J. McGregor, carpenter work and materials	68 91	
Royce & Marcan, repairs to electric lights	7 25	
J. U. Burket & Co., repairing electric lights	2 35	
		\$91 75

## Lighting:

U. S. Electric Lighting Co.	417 49
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## Advertising:

The West Publishing Co.	\$100 00	
The Nation	84 79	
The Evening Star Newspaper Co	149 20	
The Washington Post	158 24	
		492 23

## Printing:

Judd & Detweiler	\$38 00	
Gedney & Roberts (diplomas)	150 00	
Gibson Brothers	6 10	
E. B. Hay, engrossing diplomas	81 00	
		275 10

## Stationery:

W. H. Morrison, for law examinations	29 35
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## Library:

Edward Thompson Co., American and English Encyclopedia of Law	\$9 00	
W. H. Morrison, U. S. Reports, vols. 143, 144; N. Y. Court of appeals, vol. 17	10 00	
Bancroft-Whitney Co., Am. State Reports, vols. 24, 25, 26, 27, 28, 29	\$24 00	
Mack's Digest Am. State Reports, vols. 1-24	4 00	
	28 00	
M. Curlander, vol. 74, Maryland Reports	4 00	
W. H. Lowdermilk & Co., miscellaneous	49 05	
W. H. Morrison's Son, U. S. Report, Ill. Report, Ill. Digest, Conn. Digest	38 00	
		138 05

## Prizes.

Robert E. Woods, Senior class, Parker prize .....	\$100 00
Arthur S. Dudley, Graduate School, Britton prize ..	50 00
James C. Hooe, First Essay prize .....	40 00
O. M. Mather, Second Essay prize .....	30 00
Robert E. Woods, Third Essay prize .....	20 00
	<hr/> \$240 00

## Sundries:

W. H. Rapley, rental of National Theatre for commencement .....	\$150 00
Transferred to Academic Department .....	7,500 00
Seaton Perry, ribbon for diplomas .....	18 32
W. B. Moses & Son, desk, table, and chair for Graduate hall .....	40 00
H. O. Towles, 100 chairs for Graduate hall .....	225 00
W. E. Parker, 5,000 index cards .....	14 85
	<hr/> 7,948 17
	<hr/> \$21,917 14
Credit balance .....	808 96
	<hr/> \$22,726 10

## SCIENTIFIC DEPARTMENT.

Balance on hand per last report, May 31, 1892 .....	\$753 00
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## RECEIPTS.

Tuition .....	\$6,769 81
Diplomas .....	4 00
Deposits returnable to students .....	160 11
Laboratory material .....	162 08
Contributed by Professors for advertising .....	36 04
	<hr/> \$7,132 04
	<hr/> \$7,885 04

NOTE.—Tuition due the Scientific School, \$139.75.

All of which is respectfully submitted.

JAMES C. WELLING.

WASHINGTON, June 10, 1893.

## DISBURSEMENTS.

## Salaries

Professor E. T. Frisbee .....	\$56 25	
Professor C. E. Munroe .....	1,375 00	
Professor S. M. Shute .....	455 30	
Professor H. L. Hodgkins .....	1,075 42	
Professor W. S. Yeates .....	267 05	
Professor L. D. Lodge .....	400 15	
Professor F. R. Fava .....	924 01	
Professor H. Schonfeld .....	128 17	
Professor J. H. Gore .....	120 77	
Professor Harry King .....	292 68	
Professor E. P. Lewis .....	405 30	
Instructor H. A. Bumstead .....	265 83	
Instructor H. R. Pyne .....	95 64	
		\$5,861 57

## Repairs:

J. I. Atchison, plumbing, gas-fitting, etc. ....	\$64 54	
M. F. Hobson, kalsomining .....	265 00	
J. McGregor, carpenter work and materials .....	71 49	
C. Rittershofer, repairing locks and fitting keys .....	10 00	
J. U. Burket & Co., installing eight electric lights and putting in electric bell .....	30 00	
Fauth & Co., repairing chemical balances .....	148 50	
Johnson & Morris, steam-fitting .....	6 65	
J. Bishop & Co., repairing crucibles .....	8 25	
		601 43

## Gas and Electric Lighting:

Washington Gas Light Company .....	\$139 00	
United States Electric Lighting Company .....	21 42	
		160 42

## Advertising:

The Scientific Publishing Company .....	\$48 04	
The Evening Star .....	56 87	
The Washington Post .....	37 95	
United States Naval Institute .....	12 50	
		155 36

## Printing:

Judd & Detweiler .....	\$29 50	
John F. Sheiry .....	4 00	
Gedney & Roberts .....	6 00	
E. B. Hay, engrossing diplomas .....	1 00	
		40 50



Stationery :			
W. Ballantyne & Sons .....			\$2 75
Fuel :			
J. T. Given, for furnaces .....			12 15
<i>Laboratories.</i>			
Physical :			
E. P. Lewis, apparatus and materials ....	\$17 95		
A. P. Gage & Son, instruments and materials .....	31 06		
		\$49 01	
J. I. Atchison, plumbing and gas-fitting ..	\$40 00		
D. H. Washburn, installing electric lights ..	26 26		
J. P. Freeman, inspecting, electric wiring, etc. ....	3 35		
		69 61	
Corcoran :			
G. G. Cornwell & Son, distilled water ...	\$4 50		
N. W. Burchell, distilled water .....	4 50		
Tschiffely & Evans, chemicals .....	1 25		
Eimer & Amend .....	249 50		
		259 75	
Mineralogical :			
Eimer & Amend .....		23 77	
Assay :			
Eimer & Amend .....	29 20		
Doremus & Co. ....	5 00		
		34 20	
			436 34
Sundries :			
Woodward & Lothrop, ribbon for commencement ..	7 85		
J. J. Decker, blank book .....	1 50		
W. B. Sebastian, repairing black-board .....	5 00		
F. A. Schmidt, drawing materials .....	4 75		
T. D. Singleton, shades, window-frames, and 12 tables .....	49 50		
J. McL. Dodson, 1 bbl. lime .....	1 25		
Eimer & Amend, 3 sets of weights .....	28 50		
M. W. Beveridge, 1 doz. jars .....	1 65		
H. O. Towles, 5 doz. chairs .....	135 00		

All of which is respectfully submitted.

JAMES C. WELLING.

WASHINGTON, June 10, 1894.

J. P. Freeman, inspecting electric lights .....	\$2 00	
Johnson & Morris, apparatus for distilling water....	9 37	
R. H. Martin, freight on chemicals .....	3 95	
W. H. Cooper, 1 doz. class record-books .....	2 50	
Prof. C. E. Munroe, type-writing, postal cards, etc....	3 50	
		\$261 32

## Deposits returned:

Professor E. T. Fristos .....	\$45 07	
E. S. Lewis .....	6 25	
B. M. Boykin .....	7 87	
B. Daly .....	11 50	
		70 69
		7,002 53
Credit balance .....		282 51
		7,885 04

## SCHEDULE "B."

The following is a statement of the actual receipts and disbursements in each department for the fiscal years ending May 31, 1892, and May 31, 1893:

*Receipts and Disbursements for Fiscal Year Ending May 31, 1892.*

Department.	Balances May 31, '91	Receipts.	Disburse- ments.
College .....		\$5,280 50	\$12,268 76
Preparatory School (includes rent) .....		6,701 83	3,160 88
Law School .....	\$6,396 50	20,945 00	14,228 53
Coreoran School .....	641 57	5,920 98	5,809 55
General Fund .....	3,019 65	12,520 29	12,335 12
Totals .....	10,057 72	51,368 60	47,802 84
Discount paid Riggs & Co., \$6,000 .....			
Excess of receipts over current dis- bursements .....			3,565 76
			51,368 60

*Receipts and Disbursements for Fiscal Year Ending May 31, 1893.*

Department.	Balances May 31, '92	Receipts.	Disburse- ments.
College .....		\$4,755 00	\$13,005 89
Preparatory School (includes rent) .....		6,435 00	4,860 15
Law School .....	\$5,112 97	17,613 13	14,417 14
Corcoran School .....	753 00	7,132 04	7,602 53
General Fund .....	1,757 50	12,023 57	12,435 88
Total .....	7,623 47	47,958 74	52,321 59
Excess of disbursements over receipts for fiscal year ending May 31, 1893 .....		4,362 85	
Actual receipts (independent of bal- ances) for fiscal year running from June 1, 1891, to May 31, 1892 .....		51,368 00	
Actual receipts (independent of bal- ances) for fiscal year running from June 1, 1892, to May 31, 1893 .....		47,958 74	
Total for the two years .....		99,327 34	
Average for the two years .....		49,663 64	
Balance on hand May 31, 1891 .....	10,057 72		
" " " 31, 1892 .....	7,623 47		
" " " 31, 1893 .....	3,260 62		
Total receipts, including balances for fiscal year 1891-1892 .....		20,941 81	
Total receipts, including balances for fiscal year 1892-1893 .....		61,426 32	
		55,582 22	

All of which is respectfully submitted.

JAMES C. WELLING.

WASHINGTON, June 10, 1893.



## SCHEDULE "C."

## CORCORAN ENDOWMENT FUND.

## Receipts:

Note of T. B. Ferguson, paid May 25, 1893	\$20,000 00
Five notes of Chas. Losekam, paid May 31, 1893	23,000 00
	<u>\$43,000 00</u>

## Disbursements:

Note of T. B. Ferguson, secured by deed of trust, purchased May 25, 1893	20,000 00
Two notes of W. E. Earle, secured by deed of trust, purchased May 31, 1893	20,000 00
	<u>40,000 00</u>
Balance on hand May 31, 1893	3,000 00
	<u>\$43,000 00</u>

## FELTON FUND.

Cash balance, as per last report, and still on hand	\$50 64
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## WILLIE E. FITCH FUND.

Balance on hand per last report	\$5 35
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## Receipts:

Interest for one year, at 6 per cent., on note of Josiah W. McLachlen for \$1,200	72 00
	<u>77 35</u>

## Disbursements:

For Chemistry prize, awarded to Mr. O. J. Schneider	65 00
Credit balance	<u>\$12 35</u>

## SINKING FUND—MEDICAL-FACULTY NOTE.

Balance on hand per last report	\$333 80
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## Receipts:

From Dr. A. F. A. King, Dean	250 00
	<u>583 80</u>

## Disbursements:

Invested in note of G. N. Rider	583 00
Credit balance	<u>80</u>

## SCHEDULE "D."

## RECAPITULATION OF CURRENT FUNDS.

*Actual Receipts and Disbursements for Each Department for Fiscal Year ending May 31, 1893.*

Department.	Balance May 31, '92.	Receipts	Total	Disburse- ments	Balance on hand May 31, '93.
College.....		\$1,756.00	\$1,756.00	\$1,005.80	
Preparatory School (includes rents).....		6,435.00	6,435.00	4,800.15	\$1,574.85
Law School.....	\$8,112.95	17,614.43	25,727.40	14,117.14	808.96
Corcoran School.....	751.00	7,137.04	7,888.04	7,692.53	295.51
General fund.....	1,757.50	1,902.57	3,660.07	1,945.88	504.30
Total.....	\$7,623.47	\$47,998.74	\$55,622.21	\$32,461.60	\$23,560.61

\* Includes \$7,500 transferred from the Law School and \$750.80 from the General fund, which sums are not included in the disbursements for those departments.

## RECAPITULATION OF INVESTED FUNDS.

	Balance on hand May 31, '92.	Receipts, 1892-1893.	Disburse- ments, 1892-1893.	Balance on hand May 31, '93.
Corcoran Endowment.....		\$40,000.00	\$40,000.00	\$2,000.00
Elton.....	\$50.64			50.64
Walter E. Fitch.....	5.35	72.00	65.00	12.35
Sinking fund, Medical Faculty note.....	331.80	250.00	85.00	496.80
Total.....	\$388.79	\$40,322.00	\$40,648.00	\$3,061.79

*Tuition Due and Unpaid in Each Department May 31, 1893.*

College.....	\$108.00
Preparatory School.....	150.00
Law School.....	\$10.00
Corcoran Scientific School.....	139.75
General fund, rents.....	10.50
Total.....	\$1,218.25

All of which is respectfully submitted.

JAMES C. WELLING.

WASHINGTON, June 10, 1893.

## SCHEDULE "E."

## LIABILITIES.

Note secured on University Building, 5 per cent.	\$18,000 00
Note secured on Law Building and Third-street house, 5 per cent.	16,000 00
Note secured on Preparatory School Building, 6 per cent.	4,434 13
	<hr/> \$38,434 13

## SCHEDULE "F."

*Investments of the Scholarships.*

## ELTON FUND.

Chesapeake and Ohio Canal bonds, interest 6 per cent., payable January and July, Nos. 2041, 2053 to 2058, 2060, each \$1,000	\$8,000 00
Nos. 1640, 1641, each \$500	1,000 00
	<hr/> \$9,000 00
Burlington and Missouri River Railroad Co. land-mortgage bonds, interest at 7 per cent., payable April and October, Nos. 3011 and 3012, each \$1,000	2,000 00
Interest collected to April 1, 1893.	
United States coupon fours, interest payable January, April, July, and October, Nos. 14776, 14783, and 14784, each \$1,000	3,000 00
Interest collected to April, 1893.	<hr/> \$14,000 00

## KENDALL FUND.

Chesapeake and Ohio Canal bonds, Nos. 1642, 1643, each \$500	\$1,000 00
United States 4 per cent. registered bonds, interest payable January, April, July, and October, Nos. 101,966, 101,967, each \$1,000	2,000 00
Interest collected to April, 1893.	
District of Columbia 3.65 registered bond, interest payable February and August, No. 3144	1,000 00
Interest collected to February, 1893.	



Note of J. W. Hogg (assumed by J. T. Power, now deceased), dated March 31, 1883, on or before five years, at 4 per cent. Secured on lot 31, south grounds Columbia University (1431 Chapin street)----- \$1,875 00

Note extended for three years from March 31, 1891, at 6 per cent.

Interest paid to May 5, 1893.

\$5,875 00

FARNHAM FUND.

Chesapeake and Ohio Canal bond, No. 2164----- 1,000 00

DAVIS FUND.

Chesapeake and Ohio Canal bond No. 960----- 1,000 00

CARTER FUND.

Chesapeake and Ohio Canal bond No. 2165----- 1,000 00

WILLIE E. FITCH FUND.

Note of Josiah W. McLachlen, trustee of the Security Investment Company, dated September 26, 1891, payable in 3 years, with interest at 6 per cent. per annum, payable semi-annually, secured by deed of trust on lot 78, square 1008-----

1,200 00

\$24,075 00

SCHEDULE "G."

*Investments of the Corcoran Endowment Fund.*

Bonds:

United States registered fours, interest payable January, April, July, and October, Nos. 65567 to 65570.

112,936, 112,937, 112,938, each \$100----- \$700 00

Nos. 57162, 66121, 81177, 92533, each \$1,000.----- 4,000 00

\$4,700 00

Interest collected to April, 1893.

District of Columbia three-sixty-fives, interest payable February and August:

Registered, Nos. 3162, 3163, 3164, 3450, 4018, each \$1,000----- \$5,000 00

Coupons Nos. 16156, 27291, each \$500----- 1,000 00

Nos. 2861, 3229, 3230, 3324, 6755, 7179, 7373, each \$50.----- 350 00

6,350 00

Interest collected to February, 1893.

All of which is respectfully submitted.

JAMES C. WELLING.

WASHINGTON, June 10, 1893.

Church of the Covenant bonds, interest 5 per cent.,  
payable January and July.

Nos. 187 to 189, each \$1,000 .....	\$3,000 00
Nos. 32 to 35, each \$100 .....	400 00
	\$3,400 00
Interest collected to January 1, 1893.	
Par value of bonds .....	\$14,450 00

Notes:

Two notes, W. E. Earle, dated May 31, 1893, one for \$2,000, payable in one year, and one for \$18,000, payable in five years, at 6 per cent. interest, payable semi-annually, secured by deed of trust on part of lot 4, Merrick's subdivision of square 181.. 20,000 00

Note of T. B. Ferguson, dated May 25, 1893, for \$20,000, payable in four years, with interest at 5 per cent., payable semi-annually, secured by deed of trust on original lot 21, square 221 ..... 20,000 00

Note of Mrs. Rebecca Ruter Springer, dated May 24, 1887, payable in three years, with interest at 5 per cent. per annum, payable semi-annually, secured by deed of trust on parts lots 6, 7, and 8, Law and Carroll's subdivision of square 690 ..... 7,500 00

Interest paid to May 24, 1893.

Time of payment of note extended for three years from November 24, 1892; interest at 6 per cent.

Note of Miss Mary E. Mann, dated May 10, 1886, payable in three years, with interest at 6 per cent. per annum, payable semi-annually, secured by deed of trust on lots 26, 27, 44, 45, 46, and 47, Lanier Heights ..... 1,000 00

Interest paid to May 10, 1893.

Note of Alice E. Birtwell and Daniel Birtwell, dated April 1, 1890, payable in three years, with interest at 6 per cent. per annum, payable semi-annually, secured by deed of trust on part of lot 14, in square 865 ..... 2,000 00

Interest paid to April 1, 1893.

Time of payment extended for three years from April 1, 1893.

Note of James B. Wimer, dated June 23, 1890, payable in three years, with interest at 6 per cent. per annum, payable semi-annually, secured by deed of trust on lot 33, Tuttle's subdivision of part of Widow's Mite ..... \$3,000 00

Interest paid to December 23, 1892.

Note of J. Nathan Baker, dated February 9, 1891, payable in three years, with interest at 6 per cent. per annum, payable semi-annually, secured by deed of trust on part of lot 4, square 871 (No. 613 B St. S. E.) ..... 2,000 00

Interest paid to February 9, 1893.

Payment assumed by Mrs. Henrietta Heitmuller.

Note of Archibald M. McLachlen and Robinson White, trustees of the Security Investment Company, dated May 7, 1891, payable in three years, with interest at 6 per cent. per annum, payable semi-annually, secured by deed of trust on lot 9, Lanier Heights ..... 3,000 00

Interest paid to May 7, 1893.

Note of Faculty of National Medical College—J. Ford Thompson, M. D., president, and A. F. A. King, M. D., dean—dated July 1, 1887, with interest at 5 per cent. per annum, payable semi-annually: \$250 to be paid annually as a sinking fund for redemption of notes ..... 10,000 00

Interest paid to January 1, 1893.

Note of the Columbian University, dated September 20, 1882, payable in one year, with interest at 5 per cent. per annum, payable semi-annually, secured by deed of trust on Law Building and No. 222 Third street ..... 16,000 00

Purchased from National Savings Bank.

Note of the Columbian University, dated September 26, 1882, payable in one year, with interest at 5 per cent. per annum, payable semi-annually, secured by deed of trust on original lots 9, 10, 11, and part of 12, square 222 (University Building and grounds) ..... 18,000 00

Purchased from Riggs & Co. March 26, 1888.

All of which is respectfully submitted.

JAMES C. WELLING.

WASHINGTON, June 10, 1893.



Note of H. H. Barker (assumed by the Columbian University), dated April 9, 1881, payable in three years, with interest at 6 per cent. per annum, payable semi-annually, secured by deed of trust on sublots 5 and 6, square 250 (Preparatory School Building) ----- \$4,434 13

Purchased from the Louise Home April 9, 1888.

Note of George N. Rider (assumed by Miss Mary E. Mann), dated March 7, 1890, payable in one year, with interest at 6 per cent. per annum, payable semi-annually, secured by deed of trust on lot 23, Lanier Heights. Payment extended 5 years from March 15, 1892. Interest paid to March 15, 1893. 1,600 00

Note of Miss Mary E. Mann, dated April 20, 1892, payable in five years, with interest at 6 per cent. per annum, payable semi-annually, secured by deed of trust on lot 59, Lanier Heights ----- 2,000 00  
Interest paid to April 20, 1893.

Note of John W. Hibbs, dated December 16, 1891, payable in three years, with interest at 6 per cent. per annum, payable semi-annually, secured by deed of trust on part of lot 671 ----- 13,000 00  
Interest paid to December 16, 1892.

Three notes of Lucy J. and Geo. M. Wheeler—two for \$10,000 each and one for \$5,000—dated October 20, 1891, payable in three years, with interest at 6 per cent. per annum, payable semi-annually, secured by deed of trust on lot 5, square 185 ----- 25,000 00  
Interest paid to April 20, 1893.

Note of Elizabeth M. Power and Mrs. Mary C. Peterson, dated May 5, 1892, payable in five years, with interest at 6 per cent. per annum, payable semi-annually, secured by deed of trust on lots 30 and 31, south grounds, Columbian University ---- 10,000 00  
Interest paid to May 5, 1893.

Note of Robert W. Fenwick for subscription ----- 1,000 00  
Interest paid to December 26, 1892.

Sundry notes for subscription (believed to be worth- less) .....	\$1,125 00
Amount of notes .....	\$160,710 13
Total .....	\$175,169 13

## SCHEDULE "H."

*Miscellaneous Investments.**District of Columbia Coupon Bonds.*

Three-sixty-fives, interest payable February and Au- gust. Nos. 16653 to 16656, each \$500 .....	\$2,000 00
Nos. 7881 and 7882, each \$50 .....	100 00
	\$2,100 00

Interest collected to February 1, 1893.

*Quinsigamond National Bank.*

Certificate No. 5 for five shares .....	500 00
Dividends paid April 1, 1893.	
Two notes of Miss Lillian G. Hayden of \$250 each, dated May 7, 1886, payable in one and two years respectively, with in- terest at 6 per cent. per annum, payable semi-annually, secured on lot 49, Lanier Heights .....	500 00
Interest paid to May 7, 1893.	
Time of payment of notes extended.	

*Donation from Hon. Gardiner Greene Hubbard.*

Cosmos Club bonds, interest at 5 per cent., payable June and December, Nos. 113 to 117, each \$100. ....	\$500 00
Interest collected to December 1, 1891.	
Pennsylvania Telephone Company certificate No. 1646 for eight shares, par value \$50 each .....	400 00
Dividends paid to April 1, 1893.	
	900 00
	\$4,000 00

All of which is respectfully submitted.

JAMES C. WELLING.

WASHINGTON, June 10, 1893.

*Sinking Fund Medical Faculty Note.*

Church of Covenant bonds, interest at 5 per cent., payable January and July, Nos. 46, 47, and 48, each \$100	\$300 00
Interest collected to January 1, 1893.	
Cosmos Club bonds, interest at 5 per cent., payable June and December, Nos. 70 and 71, each \$100	200 00
Interest collected to December 1, 1892.	
Invested in note of George N. Rider (Corcoran Endowment Fund)	823 00
Loaned General Fund	15 00
	<hr/> \$1,348 00

*Recapitulation.*

Investments of the Scholarships	\$24,075 00
Investments of the Corcoran Endowment Fund	175,169 13
Investments of the Sinking Fund-Medical Faculty Note	1,348 00
Miscellaneous investments	4,000 00
Total	<hr/> \$204,592 13



SCHEDULE "I."—*Description and Assessed Valuation of Real Estate.*

	Square.	Lot.	Assessed Value of Lot.	Value of Improvements.	Total Assessed Value.
University Building and Grounds	222	9, 10, 11, & 12	\$58,334 00	\$2,000 00	\$60,334 00
Preparatory School and Grounds	250	Subs. 5 & 6	4,089 00	21,500 00	25,589 00
Medical College	250	Of 6 & of 8, 1	63,200 00	5,000 00	68,200 00
Stable lot in rear of Medical College	250	Of 6	2,365 00	1,500 00	3,865 00
Law Building	489	Of subs. 1	3,378 00	8,500 00	11,878 00
Third street house	Reservation	8, 9, 13	7,292 00	8,500 00	15,792 00
	42	14	6,295 00	6,000 00	12,295 00
	43		4,887 00		4,887 00
Admiral Powell property	126	Sub. C	8,820 00	12,000 00	20,820 00
Unimproved lots	South of	Of sub. D	1,470 00		1,470 00
"	13	Of 1	3,070 00		3,070 00
"	13	8	2,682 00		2,682 00
"	13	10	1,331 00		1,331 00
"	13	12	2,244 00		2,244 00
"	13	13	2,354 00		2,354 00
"	16	9	1,853 00		1,853 00
"	23	8	2,139 00		2,139 00
"	23	2	125 00		125 00
"	83	5	3,500 00		3,500 00
"	87	5	1,422 00		1,422 00
"	88	2	295 00		295 00
"	89	2	120 00		120 00
					\$250,008 00

All of which is respectfully submitted.

JAMES C. WELLING.

WASHINGTON, June 10, 1893.

SCHEDULE "A."—Table of Insurances.

Premises.	Amount.	Name of Company.	Location of Company.	No of policy.	Pre- mium.	Policy expires.
Law Building	\$3,000	Columbia	Dist. of Col.	1,169	\$12 00	Jan. 29, 1894, 1 yr.
	3,000	Firemen's	"	17,531	12 00	Jan. 29, 1894, 1 yr.
Cutler Third street house.	5,000	Arlington	"	4,887	15 00	Jan. 5, 1894, 1 yr.
	5,000	Columbia	"	980	30 00	Nov. 1, 1894, 3 yr.
Preparatory Building	2,500	Franklin	"	8,640	25 00	Nov. 1, 1894, 3 yr.
	5,000	Columbia	"	1,888	20 00	Jan. 10, 1894, 1 yr.
	5,000	Riggs	"	200	20 00	Jan. 10, 1894, 1 yr.
University Building	5,000	Arlington	"	5,273	20 00	Jan. 10, 1894, 1 yr.
	5,000	Corcoran	"	3,360	20 00	Jan. 10, 1894, 1 yr.
	5,000	Franklin	"	9,171	20 00	Jan. 10, 1894, 1 yr.
Furniture, fixtures, &c., in University Building.	5,000	(Liverpool & London and Globe.)	N. Y. Branch.	3,217,702	25 00	June 13, 1893, 1 yr.
Powell house, No. 1707 1/2 street.	5,000	Franklin	Dist. of Col.	10,416	12 50	Feb. 11, 1894, 1 yr.
	2,500	Firemen's	"	19,001	25 00	Feb. 14, 1897, 5 yr.

*Annual Financial Report of the Medical Department of the  
Columbia University from March 19, 1892, to May 8, 1893.*

1892.		
March 19.	Cash balance remaining from last account .....	\$1,007 58
1893.		
May	8. Total receipts from lecture fees, etc.....	11,668 00
	• Total receipts .....	\$12,676 18
	Total payments to date .....	11,880 60
	Balance on hand .....	795 58

The expenditure of \$11,880.60 may be summarily itemized as follows:

1892.			
April	11.	Columbia University, half year's interest on \$500 tax loan note, at 5 per cent. ....	\$12 50
July	1.	Columbia University, half year's interest on building loan of \$10,000, at 5 per cent. ....	250 00
"	"	Columbia University, annual payments of sinking fund on building loan .....	250 00
Oct.	10.	Columbia University, half year's interest on \$500 tax loan note, at 5 per cent. ....	12 50
"	"	Redemption of note of \$500 on tax loan .....	500 00
1893.			
May	8.	Salary of Prof. J. Ford Thompson .....	850 00
"	"	" " " W. W. Johnston .....	850 00
"	"	" " " A. F. A. King .....	850 00
"	"	" " " Emil A. de Schweinitz .....	850 00
"	"	" " " William Lee .....	850 00
"	"	" " " D. W. Prentiss .....	850 00
"	"	" " " D. K. Shute .....	850 00
"	"	" " " Dr. William M. Gray .....	300 00
"	"	" " " George N. Acker .....	150 00
"	"	" " " Veranus A. Moore .....	50 00
"	"	" " " Thomas E. McArdle .....	45 00
"	"	" " " George Byrd Harrison .....	50 00
"	"	" " " H. C. Yarrow .....	45 00
"	"	" " " C. W. Richardson .....	65 00
"	"	" " " A. C. Patterson .....	35 00
"	"	" " " W. K. Butler .....	45 00

All of which is respectfully submitted.

JAMES C. WELLING.

WASHINGTON, June 10, 1893.



1893.

May	8.	Salary of Dr. Theobald Smith .....	\$95 00
"	"	" " Sterling Ruffin .....	45 00
"	"	" " H. L. E. Johnson .....	40 00
"	"	Prof. de Schweinitz, for Laboratory instruction....	70 55
		Fuel and light .....	433 19
		Advertising .....	492 86
		Repairs and improvements .....	428 04
		Apparatus .....	910 00
		Catalogues .....	130 00
		Janitor .....	311 00
		Insurance .....	62 00
		Dean's commission, 2½ per cent. ....	288 18
		Sundries .....	814 78

Total expenditure as above stated..... \$11,880 60

1893.

May	23.	Paid the Columbian University one-half year's interest on building loan of \$10,000, due January 1 (but unintentionally omitted at that time), at 5 per cent. ....	\$250 00
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This payment is not included in the above totals.

It is worthy of remark that the Medical Faculty have expended about eighteen hundred dollars this year in apparatus, repairs, improvements, and the payment of salaries to special lecturers, which was necessary in the interests of the School.

Respectfully submitted by—

A. F. A. KING, M. D., *Dean.*

MAY 24, 1893.

We, the undersigned, have examined the foregoing account of Dr. King and certify that it is correct.

D. K. SHUTE, M. D.,  
E. A. DE SCHWEINITZ, PH. D.,  
*Committee of Audit.*



*Annual Financial Report of the Dental Department of the Columbian University from March 19, 1892, to May 8, 1893.*

1892.		
March 19.	Cash balance remaining from last account.....	\$464 20
1893.		
May	— Receipts from lecture fees, etc., to date.....	3,280 05
	Total receipts.....	3,744 25
	Total expenditures to date.....	3,484 81
	Balance on hand.....	\$259 44

The expenditure of \$3,484.81 may be summarily itemized as follows:

Salary of Dr. R. Finley Hunt, demonstrator in Dental Infirmary, four months, at \$50 per month.....	\$200 00
Salary of Dr. J. R. Hagan (successor to Dr. Hunt), 7 months, at \$50 per month.....	350 00
Salary of Professor H. C. Thompson.....	325 00
Salary of Professor J. Hall Lewis.....	325 00
Salaries of four medical professors in Dental Department, turned over to general fund of Medical Faculty, as by agreement.....	1,300 00
Paid Medical Department one-fourth of annual interest on building loan of \$10,000.....	125 00
Dental materials for Infirmary.....	397 66
Running expenses, including catalogues, advertising, janitor, prizes, and other sundries.....	462 15
Total expenditures, as above stated.....	\$3,484 81

Respectfully submitted by—

A. F. A. KING, M. D., *Dean.*

MAY 24, 1893.

We, the undersigned, have examined the foregoing account of Dr. King, and certify that it is correct.

D. K. SHUTE, M. D.,

E. A. DE SCHWEINITZ, Ph. D.,

*Committee of Audit.*

All of which is respectfully submitted.

JAMES C. WELLING.

WASHINGTON, June 10, 1893.



## REPORT OF AUDITING COMMITTEE.

*To the Corporation of the Columbian University.*

GENTLEMEN: The Auditing Committee have examined the bonds and notes, exhibiting the investment of the moneys pertaining to the various endowment funds and the miscellaneous securities of the Corporation now in the hands of the Treasurer, and find the foregoing schedules to be correct, and that the bonds, &c., are now safely kept in the vaults of the National Safe Deposit Company.

We have also carefully examined the foregoing statements of receipts and expenditures during the year ending May 31, 1893, and balances, and find the same to be correct and to agree with the vouchers.

J. ORMOND WILSON.

JOHN T. GIVEN.

OTIS T. MASON.



